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FIGURE 524

MGSPVHRVSLGDTWSRQMHPDIESERYMQSFDVERLTNILDGGAQNTALRRKVESIIHSYPEFSCKDNYFMTQNE
RYKAAMRRAFHIRLIARRLGWLEDGRELGAYRALSGDVALNIHRVFVRALRSLGSEEQIAKWDPLCKNIQIIAT
YAQTELGHGTYLQGLETEATYDAATQEFVIHSPTLTATKWWPGDLGRSATHALVQAQLICSGARRGMHAFIVPIR
SLQDHTPLPGIIIGDIGPKMDFDQTDNGFLQLNHVRVPRENMLSRFAQVLPDGTYYVKLGTAQSNYLEPMVVVRVEL
LSGEILPILQKACVIAMRYSVIRRQSRLRPSDPEAKVLDYQTQQQKLFPLAISYAFHFLAVSLLEFFQHSYTAI
LNQDFSFLPELHALSTGMKAMMSEFCTQGAEMCRRACGGHGYSKLSGLPSLVTKLSASCTYEGENTVLYLQVARF
LVKSYLQTMSPGSTPQRSLSPSVAYLTAPDLARCPAQRAADFLCPELYTTAWAHVAVRLIKDSVQHLQTLTQSG
ADQHEAWNQTTVIHLQAAKVHCYYVTVKGFTEALEKLENEPAIQVLKRLCDLHAIHGILTNSGDFLHDAFLSGA
QVDMARTAYLDLLRLIRKDAILLTDAFDFDQCLNSALGCYDGNVYERLFQWAQKSPTNTQENPAYEYIRPLLQ
SWRSKL

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FIGURE 525

GGCACGAGGGAGCAGCTCCTCTTCCATCTCCAGGGTCTCATTCTGTTGCCAGGCTGGAGTGCAGTGGTGCGATC
TCGGCTCACAGCAACCTCTCTGCCTCCAGAAATGACCTCCACCTTCAACCCCCGAGAATGTAACTGTCCAAGCA
AGAAGGGCAAACCTATGGCTTCTTCCCTGCGAATTGAGAAAGGACACCGAGGGCCACCTGGTCCGGGTGGTTGAGAA
GTGTAGCCCAGCAGAGAAGGCTGGCCTTCAAGATGGAGACAGAGTTCTTAGGATCAATGGTGTCTTTGTGGACAA
AGAAGAACATATGCAGGTTGTGGATCTGGTCAGAAAGAGTGGGAATTCAGTGACTTTACTAGTTCTGGATGGGGA
TTCCTATGAGAAAGCAGTGAAAACACGGGTGGACTTGAAAGAGTTGGGTCAAAGTCAGAAGGAGCAAGGTTTGAG
TGATAATATACTTTCCCCTGTGATGAATGGAGGTGTGCAAACCTTGGACCCAGCCCCGGCTCTGCTATCTCGTGAA
GGAAGGAGGCAGCTATGGCTTCTCTCTGAAAACCTGTCCAAGGTAAAAAGGGGGTGTACATGACTGATATTACACC
TCAAGGTGTGGCTATGAGAGCTGGAGTTCTGGCTGATGATCATTGATTGAAGTGAATGGAGAGAATGTAGAGGA
TGCCAGCCATGAGGAAGTGGTTGAAAAGGTGAAGAAGTCAGGAAGCCGTGTCATGTTCCCTGCTGGTGGACAAAGA
AACTGACAAGCGTCATGTTGAGCAGAAGATACAATTCAAAGAGAAAACAGCCAGTTTGAACTGTTACCCACCA
GCCCCGAATTGTGGAGATGAAGAAAGGAAGCAATGGCTATGGTTTCTATCTGAGGGCAGGCTCAGAACAGAAAGG
TCAAATCATCAAGGACATAGATTCTGGAAGTCCAGCAGAGGAGGCTGGCTTGAAGAACAAATGATCTGGTAGTTGC
TGTCACGGCGAGTCTGTGGAACCCCTGGATCATGACAGTGTGGTAGAAATGATTAGAAAGGGTGGAGATCAGAC
TTCCTGTTGGTGGTAGACAAAGAGACGGACAACATGTACAGACTGGCTCATTTTTCTCCATTTCTCTACTATCA
AAGTCAAGAACTGCCCCAATGGCTCTGTCAAGGAGGCTCCAGCTCCTACTCCCACTTCTCTGGAAGTCTCAAGTCC
ACCAGATACTACAGAGGAAGTAGATCATAAGCCTAACTCTGCAGGCTGGCTAAAGGTGAAAATGGCTATGGCTT
TCACTTAAATGCGATTCCGGGTCTGCCAGGCTCATTATCAAAGAGGTACAGAAGGGCGGTCTCTGCTGACTTGGC
TGGGCTAGAGGATGAGGATGTCATCATTGAAGTGAATGGGGTGAATGTGCTAGATGAACCCATGAGAAGGTGGT
GGATAGAATCCAGAGCAGTGGGAAGAATGTCACACTTCTAGTCTGTGGAAAGAAGGCCTATGATTATTTCCAAGC
TAAGAAAATCCCTATTGTTTCCCTCCCTGGCTGATCCACTTGACACCCCTCCAGATTCTAAAGAAGGAATAGTGGT
GGAGTCAAACCATGACTCGCACATGGCAAAAAGAACGGGGCCACAGTACAGCCTCACATTCTTCTCCAATTCTGA
AGATACAGAGATGTGATGAAAACAAGTAATAGCTTTGGCTGTTTATTTGATAGCTGTTTCTGGGTATTTAATAGG
AATCCTTTCTCAAGGAATGAGTTGTGACCTGTTTACTGTCTCTTTAGAAGAAAACTCCACTGGAAACCATTCAC
CATGTGTGATTGTCTTCTGTTATCATTTGTCTTACAGGCGGCTATTGCAGACGGCTAATTTATGCTTAACTTAGG
AAGAGATAAGGCAAGAGCTAGATTTTTTTCATGTGATCTTTTCCAAGCTTCAACTTAACTTAACTACATTTCTCT
GTATGATGATGTCTTCTTACTTCTACAGGTTCCCTTGAGCACCAAGATGATTTCATAACTCTGTATAGGTGACAGCT
GCTTATAAAAGCATCTTAGCAGATAAGCCTATTAAAATTGTGCTTTTGTAAACAATGTTGTGGTTGCTAGAATAAA
TACCATTAAACAATGCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 526

MTSTFNPRECKLSKQEGQNYGFFLRIEKDTEGHLVRVVEKCSPAEKAGLQDGDRLRINGVFVDKEEHMQVVDLV
RKSGNSVTLLVLDGDSYEKAVKTRVDLKELGQSQKEQGLSDNILSPVMNGGVQTWTQPRLCYLVKEGGSYGFSLK
TVQGKKGVYMTDITPQGVAMRAGVLADDHLIEVNGENVEDASHEEVVEKVKKSGSRVMFLLVDKETDKRHVEQKI
QFKRETASLKLPHQPRIVEMKKGSNGYGFYLRAGSEQKGQIIKDIDSGSPAEEAGLKNNDLVVAVNGESVETLD
HDSVEMIRKGGDQTSLLVVDKETDNMYRLAHFSPFLYYQSQELPNGSVKEAPAPTPTSLEVSSPPDTTEEVDHK
PKLCRLAKGENGYGFHLNAIRGLPGSFIKEVQKGGPADLAGLEDEDVIEVNGVNVLDPEYEKVVDRIQSSGKNV
TLLVCGKKAYDYFQAKKIPVSSLADPLDTPPDSKEGIVVESNHDSHMAKERAHSTASHSSSNSSEDEM

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FIGURE 527

GCAGTTCTGGTCCTCCTAGGAGCGGCCGCCTGCGCGGCGCGGCCCCCGTGGTCGG**ATG**CTGGGCGGCAGAGAGGCC
GAGGCGCACGCGCGGCCCTACATGGCGTCGGTGCAGCTGAACGGCGCGCACCTGTGCGCAGGCGTCCTGGTGGCG
GAGCGGTGGGTGCTGAGCGCGGCGCACTGCCTGGAGGACGCGGCCGACGGGAAGGTGCAGGTTCTCCTGGGCGCG
CACTCCCTGTGCGAGCCGGAGCCCTCCAAGCGCCTGTACGACGTGCTCCGCGCAGTGCCCCACCCGGACAGCCAG
CCCGACACCATCGACCACGACCTCCTGCTGCTACAGCTGTGCGAGAAGGCCACACTGGGCCCTGCTGTGCGCCCC
CTGCCCTGGCAGCGCGTGGACCGCGACGTGGCACC GGGA ACTCTCTGCGACGTGGCCGGCTGGGGCATAGTCAAC
CACGCGGGCCGCCGCCCGGACAGCCTGCAGCACGTGCTCTTGCCAGTGCTGGACCGCGCCACCTGCAACCGGCGC
ACGCAACCACGACGGCGCCATCACCGAGCGCTTGATGTGCGCGGAGAGCAATCGCCGGGACAGCTGCAAGGGTGAC
TCCGGGGGCCCGCTGGTGTGCGGGGGCGTGCTCGAGGGCGTGGTCACCTCGGGCTCGCGCGTTTGCGGCAACCGC
AAGAAGCCCGGGATCTACACCCGCGTGCGGAGCTATGCGGCCTGGATCGACAGCGTCCTGGCC**TAG**GGTGCCGGG
GCCTGAAGGTCAGGGTCACCCAAGCAACAAAGTCCCGAGCAATGAAGTCATCCACTCCTGCATCTGGTTGGTCTT
TATTGAGCACCTACTATATGCAGAAGGGGAGGCCGAGGTGGGAGGATCATTGGATCTCAGGAGTTGGAGATCAGC
ATGGGCCACGTAGCGCGACTCCATCTCTACAAATAAAATAAAATTAGCTGGGCAATTGGCGGGCATGGAGGTGGG
TGCTTGTAAGTTCCAGCTACTCAGGAGGCTGAGGTGGGAGGATGACTTGAACGCAGGAGGCTGAGGCTGCAGTGAG
TTGTGATTGCACCACTGCCCT

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FIGURE 528

MLGGREAEAHARPYMASVQLNGAHLCAAGVLVAERWVLSAAHCLEDAADGKVQVLLGAHSLSQPEPSKRLYDVLRA
VPHPDSPDPTIDHDLQLSEKATLGPAVRPLPWQRVDRDVAPGTLCDVAGWGIVNHAGRRPDSLQHVLLPVLD
RATCNRRTHHDGAITERLMCAESNRRDSCKGDSGGPLVCGGVLEGVVTSGSRVCGNRKKPGIYTRVASIAAWIDS
VLA

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FIGURE 529

ACATTTCAAAAAAATACATAGACTGATGTTTCAGACTTGTGCAGCATAAGCCTACAGGGTACGAAGAATGAACT
CTGAGAATGTTTGGAGAATGTTTCATCATTACTAACAGGATATTCCATGACATTGCTGTCTGATCTTTGACCA
TCAGTCTGTGACCTGCCCCCTTCTCTTTACATGCAGCCGCTCTCTGCTCCCTGCCCCAATGAACATCTGCACTAGG
CCCAAGCCTTGGAGTAATTTACCTGAAGAGTGACACCATTGATTTTGAAGCTACTGAAGAAACCCAAGACAGCTG
AAAACCAGAAGGCATCTGAGGAGAATGAGATTACTCAGCCGGGTGGATCCAGCGCCAAGCCGGGCCCTTCCCTGCC
TGAACTTTGAAGCTGTTTTGTCTCCAGACCCAGCCCTCATCCACTCAACACATTCACTGACAACTCTCACGCTC
ACACCGGGTCATCTGATTGTGACATCAGTTGCAAGGGGATGACCGAGCGCATTACAGCATCAACCTTCACAACT
TCAGCAATTCCGTGCTCGAGACCCTCAACGAGCAGCGCAACCGTGGCCACTTCTGTGACGTAACGGTGCGCATCC
ACGGGAGCATGCTGCGCGCACACCGCTGCGTGCTGGCAGCCGGCAGCCCCCTTCTTCCAGGACAACTGCTGCTTG
GCTACAGCGACATCGAGATCCCGTCCGTGGTGTGTCAGTGCAGTCAGTGCAAAAGCTCATTGACTTCATGTACAGCG
GCGTGCTACGGGTCTCGCAGTCGGAAGCTCTGCAGATCCTCACGGCCGCCAGCATCCTGCAGATCAAAACAGTCA
TCGACGAGTGCACGCGCATCGTGTACAGAACGTGGGCGATGTGTTCCCGGGATCCAGGACTCGGGCCAGGACA
CGCCGCGGGGCACTCCCGAGTCAGGCACGTGAGGCCAGAGCAGCGACACGGAGTCGGGCTACCTGCAGAGCCACC
CACAGCACAGCGTGGACAGGATCTACTCGGCACTCTACGCGTGCTCCATGCAGAATGGCAGCGGCGAGCGCTCTT
TTTACAGCGGCGCAGTGGTCAGCCACCACGAGACTGCGCTCGGCCTGCCCCGCGACCACCACATGGAAGACCCCCA
GCTGGATCACACGCATCCATGAGCGCTCGCAGCAGATGGAGCGCTACCTGTCCACCACCCCGAGACCACGCACT
GCCGCAAGCAGCCCCGGCCTGTGCGCATCCAGACCCTAGTGGGCAACATCCACATCAAGCAGGAGATGGAGGACG
ATTACGACTACTACGGGCAGCAAAGGGTGACATCCTGGAACGCAACGAATCCGAGGAGTGCACGGAAGACACAG
ACCAGGCCGAGGGCACCGAGAGTGAGCCCCAAAGGTGAAAGCTTCGACTCGGGCGTCAGCTCCTCCATAGGCACCG
AGCCTGACTCGGTGGAGCAGCAGTTTGGGCCTGGGGCGGCGGGGACAGCCAGGCTGAACCCACCCAACCCGAGC
AGGCTGCAGAAGCCCCCGCTGAGGGTGGTCCGCAGACAAACCAGCTAGAAACAGGTGCTTCTCTCCGGAGAGAA
GCAATGAAGTGGAGATGGACAGCACTGTTATCACTGTGACCAACAGCTCCGACAAGAGCGTCTTACAACAGCCTT
CGGTCAACACGTCCATCGGGCAGCCATTGCCAAGTACCCAGCTCTACTTACGCCAGACAGAAACCTTACCAGCA
ACCTGAGGATGCCTCTGACCTTGACCAGCAACACGCAGGTCAATTGGCACAGCTGGCAACACCTACCTGCCAGCCC
TCTTCACTACCCAGCCCGCGGGCAGTGGCCCCAAGCCTTTCCTCTTACGCTGCCACAGCCCCCTGGCAGGCCAGC
AGACCCAGTTTGTGACAGTGTCCAGCCCCGTCTGTGACCTTTACTGCACAGCTGCCAGCGCCACAGCCCCCTGG
CCTCATCCGCAGGCCACAGCACAGCCAGTGGGCAAGGCGAAAAAAGCCTTATGAGTGCACCTCTCTGCAACAAGA
CTTTCACCGCCAAACAGAACTACGTCAAGCACATGTTTCTGACACACAGGTGAGAAGCCCCACCAATGCAGCATCT
GTTGGCGCTCCTTCTCTTAAAGGATTACCTTATCAAGCACATGGTGCACACACAGGAGTGAGGGCATACCACT
GTAGTATCTGCAACAAGCGCTTACCCAGAAGAGTCCCTCAACGTGCACATGCGCCTCCACCGGGGAGAGAAGT
CCTACGAGTGCTACATCTGCAAAAAGAAGTTCTCTCACAAGACCCTCCTGGAGCGACACGTGGCCCTGCACAGTG
CCAGCAATGGGACCCCCCTGCAGGCACACCCCCAGGTGCCCGCGCTGGCCCCCAGGCGTGGTGGCCTGCACGG
AGGGGACCACTTACGTCTGCTCCGTCTGCCCAGCAAAGTTTGACCAATCGAGCAGTTCAACGACCACATGAGGA
TGCAITGTGTCTGACGGATTAAGTAGTATCTTCTCTCTTTCTTATGAACAAAACAAAACAACAACAAAAACAAAC
AAACAAAAAAGCTATGGCACTAGAATTTAAGAAATGTTTTGGTTTCATTTTTACTTTCTGTTTTTGTTTTTGTTT
CGTTTCATTTTGTACTACATGAAGAACTGTTTTTGCCTGCTGGTACATTACATTTCCGGAGGCTTGGGTGAATA
ATAGTTTTCCAGTCTCCCTCGGATGGTGGCCTTAAGGCCTGGTAGTGCTTCAAGAGGTCCACTGGTTGGATCTC
TAGCTACTGGCCTCTAAATACAACCCTTCTTTACAAAAAATAAAAAAAAAA

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FIGURE 530

MTERIHSINLHNFSNSVLETLNEQRNRGHFCDVTVRIHGSMRLAHRCVLAAGSPFFQDKLLLGYSIDIEIPSVVSV
QSVQKLIDFMYSGVLRVSQSEALQILTAASILQIKTVIDECTRIVSQNVGDVFPQIQDSGQDTPRGTPESGTSGQ
SSDTESGYLQSHPPQHSVDRIYSALYACSMQNGSGERSFYSGAVVSHHETALGLPRDHHMEDPSWITRIHERSQQM
ERYLSTTPETTHCRKQPRPVRIQTLVGNIIHIKQEMEDDYDYYGQQRVQILERNESEECTEDTDQAEGTESEPKGE
SFDSGVSSSIGTEPDSVEQQFGPGAARDSQAEPTQPEQAAEAPAEGGPQTNQLETGASSPERSNEVEMDSTVITV
SNSSDKSVLQQPSVNTSIGQPLPSTQLYLRQTETLTSNLRMPLTLTSNTQVIGTAGNTYLPALFTTQFAGSGPKP
FLFSLPQPLAGQQTQFVTVSQPGLSTFTAQLPAPQPLASSAGHSTASGQGEKKPYECTLCNKFTTAKQNYVKHMF
VHTGEKPHQCSICWRSFSLKDYLKHMVTHTGVRAYQCSICNKRFTQKSSLNVHMRMLHRGEKSYECYICKKKFSH
KTLLEHVALHSASNGTPPAGTPPGARAGPPGVVACTEGTTYVCSVCPAKFDQIEQFNDHMRMHVSDG

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FIGURE 531

TGCAGACTGATATGGATTCACTGCTAACACCTCCTGGTTGGAACTACAGGAATAGAACTGGAAAGGGAAAAA
AGGCAGCATTCAACACATCCCAATCCTGAATCCAAGAGTCTAAGATAGTCCCCACTCCTATCTCAGGCTTAGAG
GATTAGATTAATCTCCTGGAGGGAAGACTCTTCCTTGAAACATTTTTTTTATCTGCCTGTAGCTATTGGGATAA
TTCGGGAAATCCACAGGGACAGTTCAAGTCATCTTTGTCTCTACTTTCTGTTGCACTCTCAGCCTTGTTCTCTT
TTTAGAAACTGCATGGTAACTATTATATAGCTAAAGAAGAGCATTCTGACCTCTGCCCTGGGACTTCCTGGATCC
TCCTCTTCTTATAAAATACAAGGGCAGAGCTGGTATCCCGGGGAGCCAGGAAGCAGTGAGCCCAGGAGTCCTCGGC
CAGCCCTGCCTGCCCACCAGGAGGATGAAGGTCTCCGTGGCTGCCCTCTCCTGCCTCATGCTTGTGTGCTGTCCTT
GGATCCCAGGCCCAGTTCACAAATGATGCAGAGACAGAGTTAATGATGTCAAAGCTTCCACTGGAAAATCCAGTA
GTTCTGAACAGCTTTCACTTTGCTGCTGACTGCTGCACCTCCTACATCTCACAAAGCATCCCGTGTTCACTCATG
AAAAGTTATTTTGAAACGAGCAGCGAGTGCTCCAAGCCAGGTGTATATTCTCACCAAGAAGGGGCGGCAAGTC
TGTGCCAAACCCAGTGGTCCGGGAGTTCAAGATTGCATGAAAAAGCTGAAGCCCTACTCAATATAATAATAAGA
GACAAAAGAGGGCCAGCCACCCACCTCCAACACCTCCTGAGCCTCTGAAGCTCCCACCAGGCCAGCTCTCCTCCCA
CAACAGCTTCCCACAGCATGAAGATCTCCGTGGCTGCCATTCCCTTCTTCTCCTCATCACCATCGCCCTAGGGA
CCAAGACTGAATCCTCCTCACAACTGGGGGGAACCGAAGGTTGTTAAAATACAGCTAAAGTTGGTGGGGGGAC
CTTACCACCCCTCAGAGTGCTGCTTACCTACACTACCTACAAGATCCCGCGTCAGCGGATTATGGATTACTATG
AGACCAACAGCCAGTGCTCCAAGCCCGGAATTGTCTTCATCACCAAAAGGGGCCATTCCGTCTGTACCAACCCCA
GTGACAAGTGGGTCCAGGACTATATCAAGGACATGAAGGAGAACTGAGTGACCCAGAAGGGGTGGCGAAGGCACA
GCTCAGAGACATAAAGAGAAGATGCCAAGGCCCCCTCCTCCACCCACCGCTAACTCTCAGCCCCAGTCACCCCTCT
TGGAGCTTCCCTGCTTTGAATTAAAGACCACTCATGCTCTTC

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FIGURE 532

MKISVAAIPFFLLITIALGKTESSSQTGGKPKVVKIQLKLVGGPYHPSECCFTYTTYKIPRQRIMDYDETNSQC
SKPGIVFITKRGHSVCTNP SDKWVQDYIKDMKEN

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FIGURE 533

ACCACCAATGAATCTACTTCTGATCCTTACCTTTGTTGCAGCTGCTGTTGCTGCCCCCTTTGATGATGATGACAAG
ATCGTTGGGGGCTACATCTGTGAGGAGAATTCTGTCCCCTACCAGGTGTCCTTGAATTCTGGCTACCACTTCTGC
GGTGGCTCCCTCATCAGCGAACAGTGGGTGGTGTGTCAGCAGGTCACTGCTACAAGTCCCGCATCCAGGTGAGACTG
GGAGAGCACAAACATCGAAGTCCTGGAGGGGAATGAACAGTTCATCAATGCAGCCAAGATCATCCGCCACCCCAA
TACAACAGCCGGACTCTGGACAATGACATCCTGCTGATCAAGCTCTCCTCACCTGCCGTATCAATTCCCGCGTG
TCCGCCATCTCTCTGCCCCACTGCCCCCTCCAGCTGCTGGCACCGAGTCCCTCATCTCCGGCTGGGGCAACACTCTG
AGTTCTGGTGCCGACTACCCAGACGAGCTGCAGTGCCTGGATGCTCCTGTGCTGAGCCAGGCTGAGTGTGAAGCC
TCCTACCCTGGAAAGATTACCAACAACATGTTCTGTGTGGGCTTCCTCGAGGGAGGCAAGGATTCTGCCAGGGT
GATTCTGGTGGCCCTGTGGTCTCCAATGGAGAGCTCCAAGGAATTGTCTCCTGGGGCTATGGCTGTGCCAGAAG
AACAGGCCTGGAGTCTACACCAAGGTCTACAACATATGTGGACTGGATTAAGGACACCATAGCTGCCAACAGCTTAA
AGCCCCCTGGTCCCTCTGCAGTCTCTATACCAATAAAGTGACCCTGCTCTCAC

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FIGURE 534

MNLLLILTFVAAAVAAPFDDDDKIVGGYICEENSVPYQVSLNSGYHFCGGSLISEQWVVSAGHCYKSRIQVRLGE
HNIEVLEGNEQFINAAKIIRHPKYNSRTLNDNDILLIKLSSPAVINSRVSAISLPTAPPAAGTESLISGWGNTLSS
GADYPDELQCLDAPVLSQAECEASYPGKITNNMFCVGFLEGGKDSCQGDSSGPPVVSNGELQGIVSWGYGCAQKNR
PGVYTKVYNYVDWIKDTIAANS

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FIGURE 535

ATTGAGAGGCTGCTGCCTGCTTAGGAGGTTGTAGAAAAGCTCTGTAGGTTCTCTCTGTGTGTCCTACAGGAGTCTT
CAGGCCAGCTCCCTGTCGGATGGCTTTTATGAAAAAATATCTCCTCCCCATTCTGGGGCTCTTCATGGCCTACTA
CTACTATTCTGCAAACGAGGAATTGAGACCAGAGATGCTCCAAGGAAAGAAAGTGATTGTACAGGGGGCCAGCAA
AGGGATCGGAAGAGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAAAGA
AACTCTACAGAAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACACTACATTGCTGGCACCATGGA
AGACATGACCTTCGCAGAGCAATTTGTTGCCCAAGCAGGAAAGCTCATGGGAGGACTAGACATGCTCATTCTCAA
CCACATACCAACACTTCTTTGAATCTTTTTTCATGATGATATTACCATGTGCGCAAAAGCATGGAAGTCAACTT
CCTCAGTTACGTGGTCTCTGACTGTAGCTGCCTTGCCCATGCTGAAGCAGAGCAATGGAAGCATTGTTGTCGTCTC
CTCTCTGGCTGGGAAAGTGGCTTATCCAATGGTTGCTGCCTATTCTGCAAGCAAGTTTGCTTTGGATGGGTTCTT
CTCCTCCATCAGAAAGGAATATTCAGTGTCCAGGGTCAATGTATCAATCACTCTCTGTGTTCTTGGCCTCATAGA
CACAGAAACAGCCATGAAGGCAGTTTCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGGAATGTGCCCTGGA
GATCATCAAAGGGGGAGCTCTGCGCCAAGAAGAAGTGATTATGACAGCTCACTCTGGACCACTCTTCTGATCAG
AAATCCATGCAGGAAGATCCTGGAATTTCTCTACTCAACGAGCTATAATATGGACAGATTCATAAACAAGTAGGA
ACTCCCTGAGGGCTGGGCATGCTGAGGGATTTGGGACTGTTCTGTCTCATGTTTATCTGAGCTCTTATCTATGA
AGACATCTTCCCAGAGTGTCCCCAGAGACATGCAAGTCATGGGTCACACCTGACAAATGGAAGGAGTTCCTCTAA
CATTGCAAAATGGAATGTAATAATAATGAATGTCATGCACCGCTGCAGCCAGCAGTTGTAAAATTGTTAGTAA
ACATAGGTATAATTACCAGATAGTTATATTAAATTTATATCTTATATATAATAATATGTGATGATTAATACAATA
TTAATTATAATAAAGGTCACATAAACTTTATAAATTCATAACTGGTAGCTATAACTTGAGCTTATTCAGGATGGT
TCTTTAAACCATAAACTGTACAATG

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FIGURE 536

MAFMKKYLLPILGLFMAÿÿÿÿSANEFRPEMLQGKKVIVTGASKGIGREMAYHLAKMGAVVVTARSKETLQKV
SHCLELGAASAHYIAGTMEDMTFAEQFVAQAGKLMGGLDMLILNHITNTSLNLFHDDIHHVRKSMEVNFLSYVVL
TVAALPMLKQSNQSI VVVSSLAGKVAYPMVAAYSASKFALDGFFSSIRKEYSVSRVNV SITLCVLGLIDTETAMK
AVSGIVHMQAAPKEECALEIIKGGALRQEEVYDSSLWTTLLIRNPCRKILEFLYSTSYNMDRFINK

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FIGURE 537

ACAGCAGTTACACTGCGGCGGGCGTCTGTTCTAGTGTTTGAGCCGTCGTGCTTCACCGGTCTACCTCGCTAGCAT
GTCGGGCGCGGCAAGACTGGCGGCAAGGCCCGCGCCAAGGCCAAGTCGCGCTCGTCGCGCGCGGCCCTCCAGTT
CCCAGTGGGCGGTGTACACCGGCTGCTGCGGAAGGGCCACTACGCCGAGCGCGTTGGCGCCGGCGCGCCAGTGTA
CCTGGCGGCAGTGCTGGAGTACCTCACCCTGAGATCCTGGAGCTGGCGGGCAATGCGGCCCGCGACAACAAGAA
GACGCGAATCATCCCCGCCACCTGCAGCTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGGCGGCGT
GACGATCGCCCAGGGAGGCGTCTGCCCAACATCCAGGCCGTGCTGCTGCCCAAGAAGACCAGCGCCACCGTGGG
GCCGAAGGCGCCCTCGGGCGGCAAGAAGGCCACCCAGGCCCTCCCAGGAGTACTTAAGAGGGCCCGCGCCGCGGCCG
GCCGCCCCAGCTCCCCATGCCACCACAAAGGCCCTTTTAAGGGCCACCACCGCCCTCATGGAAAGAGCTGAGCCG
CTTCAGACTGCGGGGCAAGCGGGCCGCGGCTCCCTTCCCTCCCTCCCTCGCCCGCCTTCGCCGCCCGGCCCTC
GAGTCCCCGCGCCCGCCCCGCTCCCGTCCCGCACCGCCTGCCGCTCGGCCCTCGGGCCTGCCCTGTCCGCCGTCCG
CCCTCCGGTAGGGTTCGGGCCTTCCGGATGCGGCTTGGGCGCTCTTCGGGGACCTCCGTGGCGCGGAAGACCCGA
GCCTGCCGGGGGGAGGCCGGCGGGCGCCGACCTGCCCGCCTCGGCGTTCGTGACTCAGCCGCCCCATCCCCGAGTC
GCTAAGGGGCTGCGGGGAGGCCGCGAGCACCTTCTGGAAGACTTGGCCTTCCGCTCTGACGCAGGGCCGAGGTGGG
CAGTCCAGGCCGAGAGCCGGCGGCCCTGAAGGTGAGTGAGGCCCTCGGCAGCTGCAGCCGGGGTGTCTGGTACCC
CCCCGGCGTGGTGCTTAGCCCAGGACTTTCAGACGGCCGCTGGCCGGGAGGCTTTGGTGGGAGAGACGCGATCGC
CGATTTCCGTCTGGCGCCCCCTTCTGCGGCCGGGACCCAGGCCTTTCACATCAGCTCTCCCTCCATCTTCATTCAT
AGGTCTGCGCTGGGGCCGGGACGAAGCACTTGGTAAACAGGCACATCTTCCTCCCGAGTGACTGCCTCCTAGGAGG
ACATTTAGGGGAGGGCAGAGGCCTGCAGTTTGGCTTCACGGCTGGCTATGTGGACAGCAAGAGTCGTTTTGCGGA
ACGCGACTGGCAGCCAGGCCTGTGCGGCCCCCGACGCCGCCCATTTCCCTTCAGCAAACCTCAACTCGGCAATC
CAAGCACCTAGATACCAGCACAAAGTCGGTTAATCCCTGTCTGGACTGAGCCTCCGTTGGCTTCTGAACTGGAATT
CTGCAGCTAACCCTTCCACGACTAGAACCTTAGGCATTGGGGAGTTTTAGATGGACTAATTTTATTAAAGGATTG
TTTTTTTTTT

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FIGURE 538

MSGRGKTGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGHYAERVGAGAPVYLAADVLEYLTAEILELAGNAARDNK
KTRIIPRHLQLAIRNDEELNKLLGGVTIAQGGVLPNIQAVLLPKKTSATVGPKAPSGGKKATQASQEY

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FIGURE 539

CATTCCCACCCCTTCCTTCTTTAATAAGCAGGAGCGAAAAAGACAAATTCCAAAGAGGATTGTTTCAGTTCAAGGGA
ATGAAGAATTCAGAATAATTTTGGTAAATGGATTCCAATATCGGGAATAAGAATAAGCTGAACAGTTGACCTGCT
TTGAAGAAACATACTGTCCATTTGTCTAAAATAATCTATAACAACCAACCAATCAAAATGAATTCAACATTATT
TTCCCAGGTTGAAAATCATTTCAGTCCACTCTAATTTCTCAGAGAAGAATGCCAGCTTCTGGCTTTTGAAAATGA
TGATTGTCATCTGCCCTTGGCCATGATATTTACCTTAGCTCTTGCTTATGGAGCTGTGATCATTCTTGGTGTCTC
TGGAACCTGGCCTTGATCATAATCATCTTGAAACAAAAGGAGATGAGAAATGTTACCAACATCCTGATTGTGAA
CCTTTCTTCTCAGACTTGCTTGTGGCCATCATGTGTCTCCCCTTTACATTTGTCTACACATTAATGGACCACTG
GGTCTTTGGTGAGGCGATGTGTAAGTTGAATCCTTTTGTGCAATGTGTTTCAATCACTGTGTCCATTTTCTCTCT
GGTTCTCATTGCTGTGGAACGACATCAGCTGATAATCAACCCTCGAGGGTGGAGACCAATAATAGACATGCTTA
TGTAGGTATTGCTGTGATTGGGTCCTTGCTGTGGCTTCTTCTTTGCCCTTTCCTGATCTACCAAGTAATGACTGA
TGAGCCGTTCCAAAATGTAACACTTGATGCGTACAAAGACAAATACGTGTGCTTTGATCAATTTCCATCGGACTC
TCATAGGTTGTCTTATACCACTCTCCTCTTGGTGTGCTGAGTATTTTGGTCCACTTTGTTTTATATTATTGCTA
CTTCAAGATATATATACGCCTAAAAAGGAGAAACAACATGATGGACAAGATGAGAGACAATAAGTACAGGTCCAG
TGAAACCAAAAGAATCAATATCATGCTGCTCTCCATTGTGGTAGCATTTCAGTCTGCTGGCTCCCTCTTACCAT
CTTTAACACTGTGTTTGATTGGAATCATCAGATCATTGCTACCTGCAACCACAATCTGTTATTCTGCTCTGCCA
CCTCACAGCAATGATATCCACTTGTGTCAACCCCATATTTTATGGGTTCCCTGAACAAAACTTCCAGAGAGACTT
GCAGTTCTTCTTCAACTTTTGTGATTTCCGGTCTCGGGATGATGATTATGAAACAATAGCCATGTCCACGATGCA
CACAGATGTTTCCAAAACCTTCTTTGAAGCAAGCAAGCCAGTCGCATTTAAAAAATCAACAACAATGATGATAA
TGAAAAAATCTGAAACTACTTATAGCCTATGGTCCCGGATGACATCTGTTTAAAAACAAGCACAACTGCAACAT
ACTTTGATTACCTGTTCTCCCAAGGAATGGGGTTGAAATCATTGAAAATGACTAAGATTTTCTTGTCTTGCTTT
TTACTGCTTTTGTGTAGTTGTCTATAATTACATTTGGAACAAAAGGTGTGGGCTTTGGGGTCTTCTGGAATAGT
TTTGACCAGACATCTTTGAAGTGCTTTTGTGAATTTATGCATATAATATAAAGACTTTTATACTGTACTTATTG
GAATGAAATTTCTTTAAAGTATTACGATGCGCTGACTTCAGAAGTACCTGCCATCCAATACGGTCATTAGATTGG
GTCATCTTGATTAGATTAGATTAGATTGTCAACAGATTGGGCCATCCTTACTTTATGATAGGCATCATTT
TAGTGTGTTACAATAGTAACAGTATGCAAAAGCAGCATTGAGGAGCCGAAAGATAGTCTTGAAGTCATTGAGAAG
TGGTTTGAGGTTTCTGTTTTTGGTGGTTTTTGTGTTTTTTTTTTTTTTTACCTTAAGGGAGGCTTTTCATTTT
CTCCCGACTGATTGTCACTTAAATCAAAATTTAAAAATGAATAAAAAGACATACTTCTCAGCTGCAAAATATTATG
GAGAATTGGGCACCCACAGGAATGAAGAGAGAAAGCAGCTCCCCAACTTCAAACCATTTTGGTACCTGACAACA
AGAGCATTTTAGAGTAATTAATTTAATAAAGTAAATAGTATTGCTGCAAATAGCTAAATTATATTTTGAAT
TGATGGTCAAGAGATTTTCCATTTTTTTTACAGACTGTTTCAGTGTGTTGTCAAGCTTCTGGTCTAATATGTACTCG
AAAGACTTTCCGCTTACAATTTGTAGAAACACAAATATCGTTTTCCATACAGCAGTGCCTATATAGTGACTGATT
TTAACTTTCAATGTCCATCTTTCAAAGGAAGTAACACCAAGGTACAATGTTAAAGGAATATTCACTTTACCTAGC
AGGGAAAAATACACAAAACTGCAGATACTTCATATAGCCCATTTTAACTTGTATAAACTGTGTGACTTGTGGCG
TCTTATAAATAATGCACTGTAAAGATTACTGAATAGTTGTGTGATGTTAATGTGCCTAATTTTCATGTATCTTGTA
ATCATGATTGAGCCTCAGAATCATTGAGAGAACTATATTTAAAGAACAAGACATACTTCAATGTATTATACAG
ATAAAGTATTACATGTGTTTGATTTTAAAGGGCGGACATTTTATTTAAATCAATATTGTTTTTGCTTTTTCTGA
GGAGTCTCTTTCAGTTTCATTTTTTCTCATCCCATGACTTCCCTCCGATGGT

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FIGURE 540

MNSTLFSQVENHSVHSNFSEKNAQLLAFENDDCHLPLAMIFTLALAYGAVIILGVSGNLALIIIIILKQKEMRNV
NILIVNLSFSDLLVAIMCLPFTFVYTLMDHWVFGAMCKLNPFVQCVSITVSIFSLVLI AVERHQLIINPRGWRP
NNRHAYVGIAVIWVLAVASSLPFLIYQVMTDEPFQNVTLDAYKDKYVCFDQFPSSDHRLSYTTLLLVLYFGPLC
FIFICYFKIYIRLKRRNNMMDKMRDNKYRSSETKRINIMLLSIVVAFVAVCWLPITIFNTVFDWNHQIIATCNHNL
LFLLCHLTAMISTCVNPIFYGFLNKNFQDRLQFFNFCDFRSRDDDYETIAMSTMHTDVSKTSLKQASPVAFKKI
NNNDNEKI

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FIGURE 541

CACTCCCAAAGAACTGGGTACTCAACACTGAGCAGATCTGTTCTTTGAGCTAAAAACCATGTGCTGTACCAAGAG
TTTGCTCCTGGCTGCTTTGATGTCAGTGCTGCTACTCCACCTCTGCGGCGAATCAGAAGCAGCAAGCAACTTTGA
CTGCTGTCTTGGATACACAGACCGTATTCTTCATCCTAAATTTATTGTGGGCTTCACACGGCAGCTGGCCAATGA
AGGCTGTGACATCAATGCTATCATCTTTACACAAAGAAAAAGTTGTCTGTGTGCGCAAATCCAAAACAGACTTG
GGTGAATATATTGTGCGTCTCCTCAGTAAAAAGTCAAGAACATGTAAAAACTGTGGCTTTTCTGGAATGGAAT
TGGACATAGCCCAAGAACAGAAAGAACCTTGCTGGGGTTGGAGGTTTCACTTGCACATCATGGAGGGTTTAGTGC
TTATCTAATTTGTGCCTCACTGGACTTGTCCAATTAATGAAGTTGATTCATATTGCATCATAGTTTGCTTTGTTT
AAGCATCACATTAAAGTTAAACTGTATTTTATGTTATTTATAGCTGTAGGTTTTCTGTGTTTAGCTATTTAATAC
TAATTTTCCATAAGCTATTTTGGTTTAGTGCAAAGTATAAAATTATATTGGGGGGGAATAAGATTATATGGACT
TTCTTGCAAGCAACAAGCTATTTTAAAAAAACTATTTAACATTCTTTTGTATTATATTGTTTGTCTCCTAAAT
TGTTGTAATTGCATTATAAAATAAGAAAAACATTAATAAGACAAATATT

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FIGURE 542

MCCTKSLLLAALMSVLLHLHLCGESEEAASNFDCCLGYTDRILHPKFIVGFTRQLANEGCDINAIIFHTKKKLSVCA
NPKQTWVKYIVRLLSKKVKNM

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FIGURE 543

CGGCTGAGAGGCAGCGAACTCATCTTTGCCAGTACAGGAGCTTGTGCCGTGGCCACAGCCCACAGCCCACAGCC
ATGGGCTGGGACCTGACGGTGAAGATGCTGGCGGGCAACGAATTCCAGGTGTCCCTGAGCAGCTCCATGTCGGTG
TCAGAGCTGAAGGCGCAGATCACCCAGAAGATTGGCGTGCACGCCTTCCAGCAGCGTCTGGCTGTCCACCCGAGC
GGTGTGGCGCTGCAGGACAGGGTCCCCCTTGCCAGCCAGGGCCTGGGCCCTGGCAGCACGGTCTCTGCTGGTGGTG
GACAAATGCGACGAACCTCTGAGCATCCTGGTGAGGAATAACAAGGGCCGCAGCAGCACCTACGAGGTCCGGCTG
ACGCAGACCGTGGCCACCTGAAGCAGCAAGTGAGCGGGCTGGAGGGTGTGCAGGACGACCTGTTCTGGCTGACC
TTCGAGGGGAAGCCCCTGGAGGACCAGCTCCCGCTGGGGGAGTACGGCCTCAAGCCCCTGAGCACCGTGTTCATG
AATCTGCGCCTGCGGGGAGCGGGCACAGAGCCTGGCGGGCGGAGCTAAGGGCCTCCACCAGCATCCGAGCAGGAT
CAAGGGCCGGAATAAAGGCTGTTGTAAGAGAAT

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FIGURE 544

MGWDLTVKMLAGNEFQVSLSSMSVSELKAQITQKIGVHAFQORLAVHPSGVALQDRVPLASQGLGPGSTVLLVV
DKCDEPLSILVRNNKGRSSTYEVRLTQTV AHLKQQVSGLEGVQDDLFWLTFEGKPLEDQLPLGEYGLKPLSTVFM
NLRLRGGGTEFGGRS

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FIGURE 545

GCTCTCATTACCTTCTGCCCATCACTTAATAAATAGCCAGCCAATTCATCAACATTCTGGTACACTGTTGGAGAG
ATGGAGACAGTCACACCAGCTGCCCCCTAGTGGGGCTCTTACTGTTTTCTTTTATTCCAAGCCAACCTATGCGAGATT
TGTGAGGTAAGTGAAGAAAACCTACATCCGCCTAAAACCTCTGTTGAATACAATGATCCAGTCAAACTATAACAGG
GGAACCAGCGCTGTCAATGTTGTGTTGTCCCTCAAACCTGTTGGAATCCAGATCCAAAACCTGATGCAAAAGATG
ATCCAACAAATCAAATACAATGTGAAAAGCAGATTGTCAGATGTAAGCTCGGGAGAGCTTGCCTTGATTATACTG
GCTTTGGGAGTATGTCGTAACGCTGAGGAAAACCTTAATATATGATTACCACCTGATCGACAAGCTAGAAAATAAA
TTCCAAGCAGAAATTGAAAATATGGAAGCACACAATGGCACTCCCCTGACTAACTACTACCAGCTCAGCCTGGAC
GTTTTGGCCTTGTGTCTGTTCAATGGGAACCTACTCAACCGCCGAAGTTGTCAACCACTTCACTCCTGAAAATAAA
AACTATTATTTTGGTAGCCAGTTCTCAGTAGATACTGGTGCAATGGCTGTCTGGCTCTGACCTGTGTGAAGAAG
AGTCTAATAAATGGGCAGATCAAAGCAGATGAAGGCAGTTTAAAGAACATCAGTATTTATACAAAGTCACTGGTA
GAAAAGATTCTGTCTGAGAAAAAGAAAATGGTCTCATTGGAACACATTTAGCACAGGAGAAGCCATGCAGGCC
CTCTTTGTATCATCAGACTATTATAATGAAAATGACTGGAATTGCCAACAACTCTGAATACAGTGCTCAGCGAA
ATTTCTCAAGGAGCATTCAAGCAATCCAAACGCTGCAGCCCAGGTCTTACCTGCCCTGATGGGAAAGACCTTCTTG
GATATTAAACAAAGACTCTTCTTGCGTCTCTGCTTCAGGTAACTTCAACATCTCCGCTGATGAGCCTATAACTGTG
ACACCTCCTGACTCACAATCATATATCTCCGTCAATTACTCTGTGAGAATCAATGAAACATATTTACCAATGTC
ACTGTGCTAAATGGTTCTGTCTTCCTCAGTGTGATGGAGAAAGCCCAGAAAATGAATGATACTATATTTGGTTTC
ACAATGGAGGAGCGCTCATGGGGGCCCTATATCACCTGTATTGAGGGCCTATGTGCCAACATAATGACAGAACC
TACTGGGAACCTCTGAGTGGAGGCGAACCCTGAGCCAAGGAGCTGGTAGTTACGTTGTCCGCAATGGAGAAAAC
TTGGAGGTTTCGCTGGAGCAAATACTAATAAGCCCAAACCTTTCTCAGCTGCATAAAATCCATTTGCAGTGGAGTT
CCATGTTTATTGTCCTTATGCCTTCTTCTTCATTTATCCCAGTACGAGCAGGAGAGTTAATAACCTCCCCTTCTC
TCTCTACATGTTCAATAAAAGTTGTTGAAAGATTAACAACCTGT

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FIGURE 546

MRQSHQLPLVGLLLFSFIPSQLCEICEVSEENYIRLKPLLNTMIQSNYNRGTSAVNVVLSLKLVGIIQIQTLMQKM
IQQIKYNVKSRLSDVSSGELALIIILALGVCRNAEENLIYDYHLIDKLENKFQAEIENMEAHNGTPLTNYYQLSLD
VLALCLFNNGNYSTAEVVNHFTPENKNYYFGSQFSVDTGAMAVLALTCVKKSLINGQIKADEGSLKNISIIYTKSLV
EKILSEKKENGLIGNTFSTGEAMQALFVSSDYNNENDWNCQQTLLNTVLTEISQGAFSNPNAAAQVLPALMGKTFL
DINKDSSCVSASGNFNISADEPITVTPPDSQSYISVNYSVRINETYFTNVTVLNGSVFLSVMEKAQKMNDTIFGF
TMEERSWGPYITCIQGLCANNNDRTYWELLSGGEPLSQGAGSYVVRNGENLEVRWSKY

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FIGURE 547

CACGTTCCCGTACCGAAGGGTTTCAGTACCAGCAGCCCGACCATCACGCGGCGGGATGTCGTGGTTGGCATTGAC
CTCGGCTTTTCTCAACTGCTACATTGCTGTGCGGAGAAGTGGCGGCATCGAGACCATCGCCAATGAGTACAGCGAC
AGGTGTACCCCGGCCTGTATATCATTTGGGATCAAGAAGTTCGAGCCATTGGAAATGCAGCAAAGAGCCAGATAGTC
ACGAACGTAAGAAATACAATTCATGGCTTCAAAAAGCTTCATGGGCGATCATTGATGATCCCATTTGTGCAAAC
GAAAGGATCAGGCTTCCCTATGAACTGCAGAAAATGCCTAATGGAAGTGCAGGAGTTAAGGTGCGGTACTTAGAG
GAAGAGAGACCTTTTGCAATTGAGCAAGTTACTGGAATGCTGTTAGCCAAGCTTAAAGAGACTTCAGAAAATGCT
TTGAAGAAACCAGTGGCTGACTGTGTGATTTCAATTCCTAGCTTTTTTACTGATGCCGAGAGAAGATCTGTGATG
GCTGCAGCCCAGGTTGCAGGCTTAAATTGTTTAAAGTTGATGAATGAACTACTGCAGTTGCACTGGCGTATGGA
ATTTATAAACAGGATCTTCCCCCATTAGATGAGAAACCAAGAAATGTAGTATTTATTGATATGGGACATTCTGCC
TATCAGGTCTCGGTTTGTGCTTTTAAACAAAGGAAAACCTTAAAGTCTTGGCTACTACCTTTGATCCATATTTGGGT
GGCAGGAACCTTTGATGAGGCTTTAGTAGACTACTTCTGTGATGAGTTCAAGACCAAATATAAGATAAATGTGAAA
GAAACTCTCGGGCCTTGTGCGTTTATATCAGGAATGTGAAAACTAAAGAAGCTAATGAGTGC AAAATGCATCA
GATCTTCCATTGAACATTGAGTGTTCATGAATGACCTTGATGTTTCTAGTAAAATGAACAGGGCTCAATTTGAA
CAACTGTGTGCTTCCCTTTTGGCCAGGGTTGAACCACCTTTAAAAGCAGTAATGGAACAAGCTAACTTACAACGT
GAAGACATTAGTAGTATAGAAATTGTAGGAGGAGCAACACGAATTCCTGCAGTGAAAGAACAATCACTAAATTC
TTTCTTAAAGACATAAGTACCACATTAAATGCTGATGAAGCTGTTGCAAGAGGATGTGCGTTACAGTGTGCGATT
CTCTCACCAGCATTTAAAGTGCCTGAATTTTCCATAACAGACCTTGTTCCTATTCAATCACATTAAGGTGGAAG
ACCTCTTTTGAAGATGGAAGTGGGGAATGTGAAGTTTCTGTAAGAACCATCCTGCCCCATTCTCAAAAGTCATT
ACTTTCCACAAGAAGGAACCATTTGAACTAGAAGCATTTTATACTAATTTACATGAAGTGCCTTATCCTGATGCA
AGAATTGGGAGCTTCACTATTGAGAAATGTTTTTCCACAGTCTGATGGTGATAGTTCCAAAGTGAAGGTTAAAGTT
CGTGTTAACATCCATGGAATCTTCAGTGTGGCTAGCGCATCAGTAATTGAGAAGCAAATTTGGAAGGCGATCAC
AGTGATGCTCCAATGGAGACAGAACTTCATTTAAAAATGAAAACAAAGATAATATGGATAAAATGCAGGTTGAT
CAAGAAGAAGGGCATCAAAAATGTGATGCTGAACACACTCCAGAAGAGGAAATTGATCATAACAGGACCAAAACA
AAGTCAGCTGTCTCAGACAAACAAGACCGATTAAATCAGACACTTAAAAAAGGAAAAGTCAAAAGTATTGATCTA
CCGATCCAGAGTAGCCTATGTAGACAACCTAGGCCAAGATCTTCTCAACAGCTACATTGAAAATGAGGGGAAGATG
ATCATGCAAGATAAGTTAGAGAAAGAAAGAAATGATGCTAAGAATGCCGTTGAAGAATATGTATATGATTTTAGA
GACAGGCTGGGCACGTGTCTATGAAAAATTCATCACTCCAGAAGACTTGAGTAACTGTCTGCAGTATTGGAAGAC
ACAGAAAATTGGCTTTATGAAGACGGAGAGGACCAACCTAAACAAGTTTATGTGGATAAGCTTCAAGAACTAAAG
AAATACGGCCAGCCTATTCAAATGAAGTACATGGAGCATGAAGAGAGACCAAAAGCCTTAAATGACTTGGGAAAA
AAGATCCAACCTTGTGATGAAAGTGATAGAAGCTTATAGAAACAAGGATGAAAGATATGATCATCTGGATCCTACT
GAAATGGAAGAGTTGAAAAATGTATCAGTGATGCCATGAGTTGGCTGAATAGTAAGATGAATGCACAGAACAAA
CTAAGTCTCACTCAAGATCCTGTGGTAAAAGTTTCAGAAATAGTAGCAAAGTCAAAGGAACTGGATAATTTCTGT
AACCCCATCATTTACAAGCCCCAAACCAAAAGCAGAAGTTCTGAAGACAAACCAAAAGCTAATAGTGAACGCAAT
GGCCCAATGGATGGACAGAGTGGAAGTGAAGTAAATCAGATTCAACAAAAGACAGCTCACAGCATACTAAATCC
TCTGGAGAGATGGAAGTGGACTAAGTCTTAATTTTACCTTCACATTAATTCAAACCGTGCAAGTAACCACGGGGT
CCATCTTTTACATCTGGTACACACAACAGACGCTCAGTTGTTCTTAACCACTTTTGTGATTGTTTTTGGAGTAG
TTTTGAAAAGTGTTTTATATTGAGTGCACCTTCTGTTTCAATTTCCATTGCTGCTTATATGCAGCGTTAGCCGAATTA
GATTTACAAGACAATCTAAGCTTTCCGGATAATTTTATATATCAAACATACAGGATGGATACATAGTTGGCAACA
GTCTACCTTATTTAAAGCTTCTACTGGGATAAACCTCAATTCCTTTAATTCAGGAAAGGATACTTTATTGCATTAT
TGTTGCAGAAGCATAGATTTAATTGCATCTTTATTTTGA AAAACAAATGAAAATTGATGGGGTTTAAAGCTACAG
AGGCACTGACCTTTTTCTAGTTATTGTATTGCTACAATTTAAATATTAAAACAAATAAGAGCTTTCTC

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FIGURE 548

MSVVGIDLGFLNCYIAVARSGGIETIANEYSDRCTPACISLGSRTAIGNAAKSQIVTNVRNTIHGFKKLHGRSF
DDPIVQTERIRLPYELQKMPNGSAGVKVRYLEERPF AIEQVTGMLLAKLKETSENALKKPVADCVISIPSFFTD
AERRSVMAAAQVAGLNCLRLMNETTAVALAYGIYKQDLPLDEKPRNVVFIDMGHSAYQVSVCAFNKGKLVLAT
TFDPYLGGRNFDEALVDYFCDEFKTKYKINVKENSRALLRLYQECEKLKKLMSANASDLPLNIECFMNDLDVSSK
MNRAQFEQLCASLLARVEPPLKAVMEQANLQREDISSIEIVGGATRIPAVKEQITKFFLKDISTTLNADEAVARG
CALQCAILSPAFAKVRFSITDLVPYSITLRWKT SFEDGSCEVFCKNHPAPFSKVITFHKKEPFELEAFYTNLH
EVPYPDARIGSFTIQNVFPQSDGDSSKVVKVRVNIHGIFSVASASVIEKQNLGDHSDAPMETETSFKNENKDN
MDKMQVDQEEGHQKCHAEHTPEEEIDHTGAKTKSAVSDKQDRNLNQTLLKKGKVKSIDLP IQSSLCRQLGQDLLNSY
IENEGKMIMQDKLEKERNDAKNAVEEYVYDFRDLGTVEKFITPEDLSKLSAVLEDTENWLYEDGEDQPKQVYV
DKLQELKKYGQPIQMKYMEHEERP KALNDLGKKIQ LVMKVIEAYRNKDERYDHLDPTEMEKVEKCI SDAMSWLNS
KMNAQNKLSLTQDPVVKVSEIVAKSKELDNFCNPIIYKPKPKAEVPEDKPKANSERNGPMDGQSGTETKSDSTKD
SSQHTKSSGEMEVD

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FIGURE 549

ATCCTGTCTGTCCGAACCCAGACACAAGTCTTCACTCCTTCCTGCGAGCCCTGAGGAAGCCTTCTTTCCCCAGAC
ATGGCCAACAAGGGTCCTTCCTATGGCATGAGCCGCGAAGTGCAGTCCAAAATCGAGAAGAAGTATGACGAGGAG
CTGGAGGAGCGGCTGGTGGAGTGGATCATAGTGCAGTGTGGCCCTGATGTGGGCCGCCAGACCGTGGGCCCTTG
GGCTTCCAGGTGTGGCTGAAGAAATGGCGTGATTCTGAGCAAGCTGGTGAACAGCCTGTACCCCTGATGGCTCCAAG
CCGGTGAAGGTGCCCCGAGAACCCACCCCTCCATGGTCTTCAAGCAGATGGAGCAGGTGGCTCAGTTCCTGAAGGCG
GCTGAGGACTCTGGGGTCATCAAGACTGACATGTTCCAGACTGTTGACCTCTTTGAAGGCAAAGACATGGCAGCA
GTGCAGAGGACCCTGATGGCTTTGGGCAGCTTGGCAGTGACCAAGAATGATGGGCACTACCGTGGAGATCCCAAC
TGGTTTATGAAGAAAGCGCAGGAGCATAAGAGGGAATTCACAGAGAGCCAGCTGCAGGAGGGAAAGCATGTCATT
GGCCTTCAGATGGGCAGCAACAGAGGGGCCTCCAGGCCGGCATGACAGGCTACGGACGACCTCGGCAGATCATC
AGTTAGAGCGGAGAGGGGCTAGCCCTGAGCCCGGCGCTCCCCAGCTCCTTGGCTGCAGCCATCCCGCTTAGCCTG
CCTCACCCACACCCGTGTGGTACCTTCAGCCCTGGCCAAGCTTTGAGGCTCTGTCACTGAGCAATGGTAACTGCA
CCTGGGCAGCTCCTCCCTGTGCCCCAGCCTCAGCCCAACTTCTTACCCGAAAGCATCACTGCCTTGGCCCCCTCC
CTCCCGGCGGCCCCCATCAGCTCTACTGTCTCCTCCCTGGGCTAAGCAGGGGAGAAGCGGGCTGGGGGTAGCCTG
GATGTGGGCGAAGTCCACTGTCCTCCTTGGCGGCAAAAGCCCATTGAAGAAGAACAGCCAGCCTGCCCCCTAT
CTTGTAACCTGGAATATTTTGGGGTTGGAACCTCTC

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FIGURE 550

MANKGPSYGMSREVQSKIEKKYDEELEERLVEWIIIVQCGPDVGRPDGRGPLGFQVWLKNGVILSKLVNSLYPDGSK
PVKVPENPPSMVFKQMEQVAQFLKAAEDSGVIKTD MFQTVDLFEGKDMAAVQRTLALGSLAVTKNDGHYRGDPN
WFMKKAQEHKREFTESQLQEGKHVIGLQMGSNRGASQAGMTGYGRPRQIIS

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FIGURE 551

GAATTCCGAGGGGTCGCTGTGCTGAGCGGCGGGACTGAGCTGTTGAGTTAGAGCCAACATGAGTGAGCGACAAGG
TGCTGGGCCAACCAATGGAAAAAGACAAGACATCTGGTGAAAATGATGGACAGAAGAAAGTTCAAGAAGAATTTGA
CATTGACATGGATGCACCAGAGACAGAACGTGCAGCGGTGGCCATTTCAGTCTCAGTTCAGAAAATTCCAGAAGAA
GAAGGCTGGGTCTCAGTCCTTAGTGGGAGAACCCCTCCTAGTCCACCTGAAAGCACCAAATTCAACCATCATCTG
TCAAGAAATTAAAAGAACAACCCCTAGAGAGAAGTCATCCACACACAATCCACACACGCATAGCAAACCTCCAA
TGCATGTACAGAAACCTGTGATATTTATACCCTTGTAGGAAGGTATAGACAATGGAATTGTGAGTAGCTTAATCT
CTATGTTTCTCTCCATTTTCATTCCTCCTGCAACTATTTTCCTTGATGTTGTAATAAAATGAAGTTACGATGAGA
AAAAAAAAAAAAAAAA

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FIGURE 552

MSERQGAGPTNGKDKTSGENDGQKKVQEEFDIDMDAPETERAAVAIQSQFRKFQKKKAGSQS

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FIGURE 553

GGCACCGATTTCGGGGCCTGCCCCGACTTCGCCGCACGCTGCAGAACCTCGCCCAGCGCCACC**ATG**CCCCGGCAG
CTCAGCGCGGGCGGCCGCGCTCTTCGCGTCCCTGGCCGTAATTTTGACGATGGCAGTCAAATGAGAGCAAAAGCA
TTTCCAGAAACCAGAGATTATTCTCAACCTACTGCAGCAGCAACAGTACAGGACATAAAAAAACCCTGTCCAGCAA
CCAGCTAAGCAAGCACCTCACCAAACCTTAGCAGCAAGATTCATGGATGGTCATATCACCTTTCAAACAGCGGCC
ACAGTAAAAATTCCAACAACCTACCCCAGCAACTACAAAAAACAACCTGCAACCACCAGCCCCAATTACCTACACCCCTG
GTCACAACCCAGGCCACACCCAACAACCTCACACACAGCTCCTCCAGTTACTGAAGTTACAGTCGGCCCTAGCTTA
GCCCCTTATTCACTGCCACCCACCATCACCCACAGCTCATACAGCTGGAACCAGTTTCATCAACCGTCAGCCAC
ACAACCTGGGAACACCACTCAACCCAGTAACCAGACCACCCCTTCAGCAACTTTATCGATAGCACTGCACAAAAGC
ACAACCGGTGAGAAGCCTGATCAACCCACCCATGCCCCAGGAACAACGGCAGCTGCCCACAATACCACCCGCACA
GCTGCACCTGCCTCCACGGTTCTTGGGCCACCCCTGCACCTCAGCCATCGTCAGTCAAGACTGGAATTTATCAG
GTTCTAAACGGAAGCAGACTCTGTATAAAAGCAGAGATGGGGATACAGCTGATTGTTCAAGACAAGGAGTCGGTT
TTTTACCTCGGAGATACTTCAACATCGACCCCAACGCAACGCAAGCCTCTGGGAACCTGTGGCACCCGAAAATCC
AACCTTCTGTTGAATTTTCAGGGCGGATTTGTGAATCTCACATTTACCAAGGATGAAGAATCATATTATATCAGT
GAAGTGGGAGCCTATTTGACCGTCTCAGATCCAGAGACAGTTTACCAAGGAATCAAACATGCGGTGGTGATGTTT
CAGACAGCAGTCGGGCATTCCCTCAAGTGCGTGAGTGAACAGAGCCTCCAGTTGTCAGCCCACCTGCAGGTGAAA
ACAACCGATGTCCAACCTCAAGCCTTTGATTTTGAAGATGACCACTTTGGAAATGTGGATGAGTGCTCGTCTGAC
TACACAATTGTGCTTCTGTGATTGGGGCCATCGTGGTTGGTCTCTGCCTTATGGGTATGGGTGTCTATAAAATC
CGCCTAAGGTGTCAATCATCTGGATACCAGAGAATCT**TA**ATTGTTGCCCGGGGGGAATGAAAATAATGGAATTTAG
AGAACTCTTTCATCCCTTCCAGGATGGATGTTGGGAAATTCCCTCAGAGTGTGGGTCCCTCAAACATGTAAACC
ACCATCTTCTATTCAAATGAAGTGAGTCATGTGTGATTTAAGTTTCAGGCAGCACATCAATTTCTAAATACTTTTT
GTTTATTTTATGAAAGATATAGTGAGCTGTTTATTTTCTAGTTTCCTTTAGAATATTTTAGCCACTCAAAGTCAA
CATTGAGATATGTTGAATTAACATAATATATGTAAAGTAGAATAAGCCTTCAAATATATAACCAAGGGTCAATT
GTAATAATACTACTGTGTGTGCATTGAAGATTTTATTTTACCCCTTGATCTTAACAAAGCCTTTGCTTTGTTATC
AAATGGACTTTTCAGTGCTTTTACTATCTGTGTTTTATGGTTTCATGTAACATACATATTCCTGGTGTAGCACTTA
ACTCCTTTTCCACTTTAAATTTGTTTTTGTGTTTTTGTAGACGGAGTTTCACTCTTGTACCCAGGCTGGAGTACAG
TGGCAGGATCTCGGCTTATGGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCCTGCTTCAGCTTCCCGAGTAGC
TGGGATTACAGGCACACACTACCACGCCTGGCTAATTTTTGTATTTTTATTATAGACGGGTTTACCATGTTGGC
CAGACTGGTCTTGAACCTTTGACCTCAGGTGATCCACCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATG
AGCCATTGCGCCCGGCCCTTAAATGTTTTTTTAAATCATCAAAAAGAACAACATATCTCAGGTTGTCTAAGTGTTT
TTATGTAAACCAACAAAAGAACAATCAGCTTATATTTTTTATCTTGATGACTCCTGCTCCAGAATTGCTAGA
CTAAGAATTAGGTGGCTACAGATGGTAGAACTAAACAATAAGCAAGAGACAATAATAATGGCCCTTAATTATTAA
CAAAGTGCCAGAGTCTAGGCTAAGCACTTTATCTATATCTCATTTTCATTCTCACAACCTTATAAGTGAATGAGTAA
ACTGAGACTTAAGGGAACCTGAATCACTTAAATGTCACCTGGCTAACTGATGGCAGAGCCAGAGCTTGAATTCATG
TTGGTCTGACATCAAGGTCTTTGGTCTTCTCCCTACACCAAGTTACCTACAAGAACAATGACACCACACTCTGCC
TGAAGGCTCACACCTCATACCAGCATACGCTCACCTTACAGGGAAATGGGTTTATCCAGGATCATGAGACATTAG
GGTAGATGAAAGGAGAGCTTTGCAGATAACAAAATAGCCTATCCTTAATAAATCCTCCACTCTCTGGAAGGAGAC
TGAGGGGCTTTGTAAACATTAGTCAGTTGCTCATTTTTATGGGATTGCTTAGCTGGGCTGTAAAGATGAAGGCA
TCAAATAAACTCAAAGTATTTTTAAATTTTTTGTATAATAGAGAACTTCGCTAACCAACTGTTCTTTCTTGAGT
GTATAGCCCCATCTTGTGGTAACTTGCTGCTTCTGCACCTCATATCCATATTTCTATTGTTCACTTTATTCTGT
AGAGCAGCCTGCCAAGAATTTTATTTCTGCTGTTTTTTTTGCTGCTAAAGAAAGGAACCTAAGTCAGGATGTAAAC
AGAAAAGTCCACATAACCCTAGAATTCTTAGTCAAGGAATAATTCAAGTCAGCCTAGAGACCATGTTGACTTTCC
TCATGTGTTTCTTATGACTCAGTAAGTTGGCAAGGTCCTGACTTTAGTCTTAATAAAACATTGAATTGTAGTAA
AGGTTTTTGCAATAAAAACCTTACTTTGG

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FIGURE 554

MPRQLSAAAAALFASLAVILHDGSQMRKAFPETRDYSQPTAAATVQDIKKPVQQPAKQAPHQTLAARFMDGHITF
QTAATVKIPTTTTPATTKNTATTSPITYTLVTTQATPNNSTAPPVTEVTVGPSLAPYSLPPTITPPAHTAGTSSS
TVSHTTGNTTQPSNQTTLPATLSIALHKSTTGQKPDQPTHAPGTTAAAHNTTRTAAPASTVPGPTLAPQPSSVKT
GIYQVLNGSRLCIKAEMGIQLIVQDKESVFSPPRYFNIDPNATQASGNCGTRKSNLLLNFQGGFVNLTFTKDEES
YYISEVGAYLTVSDPETVYQGIKHAVVMFQTAVGHSEFKCVSEQSLQLSAHLQVKTTDVQLQAFDFEDDHFGNVDE
CSSDYTIVLPVIGAIVVGLCLMGMGVYKIRLRQCSSGYQRI

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FIGURE 555A

GCGGGGAGCCGGCGGTTATCTGGGCGGCGGAGCGCTCACAATGTGGCAGGAGACAGAAAAGATAAGATGCTCCCA
AGTCCCTTGCAGCTCTCTTCAGAAGAAAAATCACTAGTGCTCTGCTCTTGCCATAATACCAAACCTTTTTGACTC
ATGCTTTGGTGCTGCAACACTGGAAGAATTGCACACAGTTTTCCAGGAATATCTTTTTTTCATTTGAGTGATTCTT
TGTGGATGAGAAAAGATTGAGTCTTAATAATTACCTTGTTTTAAAGCTATTTCTTTATAGTCTGAACTGTTTAA
TAAATTGGGCCACTTACCAATGAGCCACACAGCCAGTTCTTGTCAGGAGCTGGTTGAAAACGTGTGCTGTGCATGT
AGCAGGAATGGCACAAGAAGATAGCCGTCGTGGTCAAGTGCCATCTTCCTTTTATCATGGTGCCAACCAAGAAGT
TGACCTGTCCACCAAAGTGTACAAAAGGGAATCAGGAAGTCCTTATTCTGTGTTAGTGGACACCAAGATGAGCAA
ACCGCATCTCCATGAAACAGAAGAACAGCCATATTTTCAGGGAGACAAGAGCAGTGTCTGACGTGCATGCTGTTAA
GGAAGACCGGGGAGAATTCTGATGACACAGAGGAGGAAGAGGAAGAAGTCTCTTACAAAAGGGAGCAGATCATAGT
GGAGGTAAACCTTAATAATCAAACATTAAATGTATCTAAAGGGGAAAAGGGTGTCTCTTCTCAGTCCAAAGAGAC
TCCTGTTCTTAAGACAAGCAGTGAGGAGGAAGAGGAAGAGAGTGAGGAAGAGGGCCACAGATGACAGCAATGACTA
TGGAGAGAATGAAAAGCAGAAGAAAAAGGAGAAGATAGTAGAGAAAGTCAGCGTTACACAAAGGAGAACCAGGAG
AGCTGCCCTCTGTTGCGCGAGCTACCACTTCCCCTACTCCAGAACTACAAGAGGTCGTAGGAAGAGTGTAGAGCC
ACCTAAGCGTAAGAAGCGGGCCACAAAGGAGCCCAAAGCACCAGTCCAGAAAGCTAAGTGTGAAGAGAAAGAGAC
TCTGACCTGTGAGAAGTGCCCCAGGGTATTTAACACTCGCTGGTACCTGGAGAAGCACATGAACGTTACTCATAG
GCGCATGCAGATTTGTGATAAATGTGGCAAGAAGTTTGTCTGGAAAAGTGAGCTGTCCCTTACCAGCAAAACAGA
CTGTGAAAAAACATTCAAGTGTGTTTCTGTAAACAAATCGTTCAAGAACTCTGGTCCCTTCATGAACATATCAA
GATCGTCCATGGATATGCAGAAAAGAAATTTTCTGTGAAAATTTGTGAGAAGAAATCTATACCATGGCTCATGT
GCGGAAACACATGGTTGCACACACAAAAGACATGCCATTTACATGCGAAACCTGTGGAATCATTTCAAACGCAG
TATGTCACTCAAGGTGCACTCCTTGCAGCATTCTGGAGAGAAGCCCTTTAGATGCGAGAAGTGTGACGAAAAGGTT
TCAGTACAAGTACCAGCTACGCTCCACATGAGCATTATTTGGGCACAAACAGTTTATGTGCCAGTGGTGTGG
CAAGGATTTCAACATGAAGCAGTACTTTCGACGAACACATGAAAACACACACTGGAGAGAAACCTTTTATCTGTGA
AATCTGTGGCAAAAGCTTACCAGCCGCCCCAACATGAAGAGACACCGCAGAACTCACACAGGCGAGAAGCCCTA
TCCATGTGATGTGTGTGGCCAGCGGTTCCGCTTCTCGAACATGCTTAAGGCCCAAGGAGAAGTGCTTTTCGGGT
GACCAGCCCCGTGAATGTGCCACCTGCTGTCCAGATCCCACTTACAACCTTCCCCAGCCACCCAGTTTCTTCTGT
GGTGAACACAGCCACAACCCCAACCCCTCCAATCAATATGAATCCTGTAAGCACTCTTCCCCCTCGGCCCCATCCC
CCACCCCTTCTCACACCTGCACATCCACCCACACCCCTCACCACCCACACCACCTTCCCATCCCTCCAGTCCCTCA
CCTCCCGCCACCTCCAGCTCTCTTTAAGAGTGAGCCTTTAAATCATAGAGGCCAGAGTGAGGACAACCTTTCTGCG
GCACCTGGCAGAGAAGAACAGTTTCAGCACAGCATCATTAACATCCGTCTCCTTAGTGTGTTCTCCAGGAGACAG
TCCCCATGTGTGAGCGTGCACAGAGGGAGTCGGTGAGCATTTCCTTAGTTCTCAGACTCTCCTCCGCTCTACCA
AGAGCTTCGCCAGTGTCACTGAATCAACAGATCCAAGGGAATGAACAAGAAGACTACCTTGAGCTCACAGAGGGA
CTGTCACTCTAAACCAGGGGAACCACTGAATAAGCCCAATTTGCTTGCAATTTCTGATGACTTTTATAAGTTTC
AAATACTCAGACTTGTGGAATTTTATAATTTATATCAGCTGATGAGGTATGCTTGCTTTTATATCCCAGACTTC
TCCTCAAAGAGGGGATAGGCCTGGTTTCTTTGTACTAATCGGGAAGGCTGTGAGATTAATCCAGAGCATTAAAT
GTATCACTGTGTATGGTAAGGAATCTTTTCAGCTTTTGGTGCCAGCTACAGAGTTGAGCTGGCCATGTTTCACA
GTATATCAAGCATTATAGAGAAAGACAGAAATTTCTTCTTTGTGTAGCTCTCCTAACGCACTCTTTATTTTACT
ACAGAAATTTATTTAGAGTTTTTGTATAGACTTCTTTGGTAGTCTGTTTCTAAAATGAAATGTATTTCAATAAGC
AGTGTAATTTTTTTCAGTGTAGCTGAACCTATGTTGTAAATAGAAAAAATTTTTATAATCATCAAAATGTGATT
CTTAAAGATGCATATAACTTCTATAATTCAAAGCTATTCTTACATCCGTACAACCTCAAAGGTGCTTCAGAGACT
AGATGTATCTGAGAGGGTCTCCAGACCAGGTTACTGCAAAAATGAGGTTTTGCTTTTCAGGATTTGGCGTAAATAC
TTGGTAGTTTTGACATCTCTGCTTAACACTCAAGAGAGGCTCCCTAATGTGCTCCTGTCTCCATGTTCTGCTTG
GCTTCGTTAGTGCATTACATGAAATGATTGTCAGGGGATGGGGCCTTTTCAGGGAAAGTCACCTAAAGCTTGCAT
GTTTTGAAAATTTGAATAAGGCTGTTTGTGCTGACAGGAGGAGGAAGTAGTGAGATCATTTTCATCTCAGTCACGTC
TGTTTTCTCACTTCCCTTAGGAATTGTGTTGATGTTTAACTTTTATGGGATGACAAATTGAAATCGCTCATTTTGA
GGTTGCTTTATTTTTCTAGAATTGTTATAAGAAGCTAAAATAGTAACTTAAAATCACAAACATGACATTGCTGA
TAGTGGCTGAGAAATTCAGATGAGAAGACAAATTGGTTATGAATTTTGAAATATCTATTATATGTAATGTGGA
TATGTTTACAACCTTTCAGCTATTTTAAACACAGTTTAAATATAGTGAGGGAAAACCTTAAGTTTTTACTGCCCTGT
CCTCTGCAAATTATGTAATACCAGCATTCTTAGGCGATAAAGAGAGCAGCACCTCTAGTACCTTTAGGCAGATTA

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FIGURE 555B

CTTTTTCAAGTTTGGGGAACCTTCAAAAGACCATAATCAACCAGGAGCTTATTATAGGAAAGGCTGAACAGAAGGG
CTAGTGATTGATTACACTTAACAGATCATATTTATCCAGACTCAGTATAGCTTAAAATTTTGTATTTCTTTATC
TGAGAGAACTGAGTTCCAGGCTAAATCATTACCTCCCACCCCTCTCCAATTTTTTTTTTAAAGAGACAAGGTC
TTGCTATGTTGCCAGGCTAGAGTGCAGTGGCTATTACAGGTGCAGTTATAGCACACTACAGCCTCCAACCTCTT
GGGTTCAAGCAACCCTGCCTCAGCTAACCAAGTAGCTGGGACTACAGGTGCATGCTACCATGCCAGTCCATTTT
TTAATCTTGAAATTTCTTCATTTTCTTTCTTCGGTTTCTTAAAATCTTTGCCTGAATCAGAACGCTGGCTTTTA
TTTATTTTTTTATTTTAAATATTAAATGTGCAGATATGCTTCGAGCACTTTTCTAACTAATGAGCTCTGTGGTAA
GAAAAATGAACCTCTTCAATTGAGATTAAAGTCCATATTTTTCAAACATCACGTTCTCTATTGGCTTTTTGGTTT
AGTGTCTTAAATTTTCTCCTTCTGATTTTGCCTGTCTTATATAATGAGCATAGGAAAATTTTGGAAATGAGGCAG
AAAAGTATATCAAGACATACTTCCCTGGTTTTGGATGTAAGTTTTAAAGAATGGTATTTTAAATTTGTACACAT
TCTTTGAGCACCCAGGTACCCAAGCCAATAAGGAAAGTTAATTCCTTGCCATATGACTGTTATATCTTTAGTGGTT
GTCTCCCTCTCCCTCCACAGTCTCCTTGGCATTCCATGACAAGTTTGTCAACCTACACTTTTATATAGACATGTC
ATTATTTTCATGGTCAAGCCTGTAGTATTAAAATGATTTTTTTTAAAAGATGTAACTGTGCTTAGTTAATTGGTTA
TATTTTGTCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCAGAGTCTTGTCTGTTGCCTGGGCTGGAGTG
CAGTGGCGTGATCTTGGCTCAGTGCAACCCCGCCCCCGGGTTCAAGTGATTCTCCTGCCCTCAGCCTCCCGAGT
AGCTGGAATTACAGGCATGCGCCAGCACGCCCCGGCTAAGTTTTGTATTTTGGCAGAGATGGGGTTTACCATAT
TGGCCAGGCTGGTCTCAAACCTCTGACCTTGTGATCCGCCCACCTCAGCCTCCGAAAGTGCTGGGATTACAGGCG
TGAGCCACCACGTCCAACCTGCCTTATTTTGTCTGAATAAATTTACAGTATTGGGCAGCAATTCTGGATTCTAGA
CTTGAGACCACAGAATCAACCATTTTCATGAGGTTGTACTGTAATTATACACTGGAATATTCAGGTAGTCATCTTT
GATTTTTTCATTCAAGTAAATATAGCCATAAGAAAATATCTGCTATACAGGAAAACCAGTATTAAGCAAATACCAC
CATCCTTAACAGAAACAAAAATATATATATATATTATTTTTTAAAAATTAGCATTGTCATACAGTACAATTCTTAG
TGAAGTGTATTGTGGAACAATTTAGAACTTCCTTTTTTTTCCCCTAGATTAAAGGATACTTTCCTTGACTTGAGAC
TTGTGGTCTTCAGGAAAACCTACTCAGAATATAATGACTCCTCATCAGTATCATATTGTATATAAATAATGAAATG
CATTAAGAATATTACAACATTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCGCTCCAG
CCTGGGCAACAGAGCGAGACTCCATCTC

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FIGURE 556

MSHTASSCQELVENC AVHVAGMAQEDSRRGQVPSSFYHGANQELDLSTKVYKRESGSPYSVLVDTKMSKPHLHET
EEQPYFRETRAVSDVHAVKEDRENSDDTEEEEEEEVSYKREQIIVEVNLNNQTLNVSKGEKGVSSQSKETPVLKTS
SEEEEEEESEEEATDDSN DYGENEKQKKKEKIVEKVSVTQRRTRRAASVAAATTSPTRTTGRRRKSVEPPKRKKR
ATKEPKAPVQKAKCEEKETLTCEKCPRVFNTRWYLEKHMNVTHRRMQICDKCGKKFVLESELSLHQQTDCENIQ
CVSCNKSFKKLWSLHEHIKIVHGYAEKKFSCEICEKKFYTMHVVRKHMVAHTKDMPTCETCGKSFKRSMSLVH
SLQHSGEKPFRCENC DERFQYKYQLRSHMSIHIGHKQFMCQWCGKDFNMKQYFDEHMKHTHTGEKPFICEICGKSF
TSRPNMKRHRRTHTGEKPYPCDVCGQRFRFSNMLKAHKEKCFRTSPVNVPPAVQIPLTTSPATPVPSVNTATT
PTPPINMNPVSTLPPRP IHPHFSHLHIHPHPHHPHLP IPPVPHLPPPPALFKSEPLNHRGQSEDNFLRHLAEKN
SSAQHH

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FIGURE 557

TTTCTTAGACATTAACATGCAGACGGCTGGCAGGATAGAAGCAGCGGCTCACTTGGACTTTTTTACCAGGGAAAT
CAGAGACAATGATGGGGCTCTTCCCCAGAACTACAGGGGCTCTGGCCATCTTCGTGGTGGTCATATTGGTTTCATG
GAGAATTGCGAATAGAGACTAAAGGTCAATATGATGAAGAAGAGATGACTATGCAACAAGCTAAAAGAAGGCAAA
AACGTGAATGGGTGAAATTTGCCAAACCCCTGCAGAGAAGGAGAAGATAACTCAAAAAGAAACCCAATTGCCAAGA
TTACTTCAGATTACCAAGCAACCCAGAAAATCACCTACCGAATCTCTGGAGTGGGAATCGATCAGCCGCCTTTTG
GAATCTTTGTTGTTGACAAAAACACTGGAGATATTAACATAACAGCTATAGTCGACCGGGAGGAACTCCAAGCT
TCCTGATCACATGTCGGGCTCTAAATGCCCAAGGACTAGATGTAGAGAAACCACTTATACTAACGGTTAAATTT
TGGATATTAATGATAATCCTCCAGTATTTTACAACAAATTTTCATGGGTGAAATTGAAGAAAATAGTGCCTCAA
ACTCACTGGTGATGATACTAAATGCCACAGATGCAGATGAACCAAAACCACTTGAATTCATAAATTGCCTTCAAAA
TTGTCTCTCAGGAACCAGCAGGCACACCCATGTTTCTCTAAGCAGAAACACTGGGGAAGTCCGTACTTTTGACCA
ATTCTCTTGACCGAGAGCAAGCTAGCAGCTATCGTCTGGTGTGAGTGGTGACAGACAAAGATGGAGAAGGACTAT
CAACTCAATGTGAATGTAATATTAAAGTGAAAGATGTCAACGATAACTTCCCAATGTTTAGAGACTCTCAGTATT
CAGCACGTATTGAAGAAAATATTTTAAAGTTCTGAATTACTTCGATTTCAAGTAACAGATTGGATGAAGAGTACA
CAGATAATTGGCTTGAGTATATTTCTTTACCTCTGGGAATGAAGGAAATTGGTTTGAAATACAACTGATCCTA
GAACTAATGAAGGCATCCTGAAAGTGGTGAAGGCTCTAGATTATGAACAACTACAAAGCGTGAACTTAGTATTG
CTGTCAAAAACAAAGCTGAATTTACCAATCAGTTATCTCTCGATACCGAGTTCAGTCAACCCCAGTCACAATTC
AGGTAATAAATGTAAGAGAAGGAATTGCATTCCGTCTCTGCTTCCAAGACATTTACTGTGCAAAAAGGCATAAGTA
GCAAAAATTTGGTGGATTATATCCTGGGAACATATCAAGCCATCGATGAGGACACTAACAAAGCTGCCTCAAATG
TCAATATGTCATGGGACGTAACGATGGTGGATACCTAATGATTGATTCAAAAACCTGCTGAAATCAAATTTGTCA
AAAATATGAACCGAGATTCTACTTTTCATAGTTAACAAAACAATCACAGCTGAGGTTCTGGCCATAGATGAATACA
CGGGTAAAACCTTCTACAGGCACGGTATATGTTAGAGTACCCGATTTCAATGACAATTGTCCAACAGCTGTCTCG
AAAAGATGCAGTTTGCAGTTCTTCACCTTCCGTGGTGTCTCCGCTAGAACACTGAATAATAGATACACTGGCC
CCTATACATTTGCACTGGAAGATCAACCTGTAAAGTTGCCTGCCGTATGGAGTATCACAACCCCTCAATGCTACCT
CGGCCCTCTCAGAGCCCAGGAACAGATACCTCCTGGAGTATACCACATCTCCCTGGTACTTACAGACAGTCAGA
ACAATCGGTGTGAGATGCCACGCAGCTTGACACTGGAAGTCTGTGAGTGTGACAACAGGGGCATCTGTGGAACCT
CTTACCCAACCACAAGCCCTGGGACCAGGTATGGCAGGCCGCACTCAGGGAGGCTGGGGCCTGCCGCCATCGGCC
TGCTGCTCCTTGGTCTCCTGCTGCTGCTGTTGGCCCCCTTCTGCTGTTGACCTGTGACTGTGGGGCAGGTTCTA
CTGGGGGAGTGACAGGTGGTTTTATCCAGTTTCTGATGGCTCAGAAGGAACAATTCATCAGTGGGGAATTGAAG
GAGCCCATCTGAAGACAAGGAAATCACAAATATTTGTGTGCCTCCTGTAACAGCCAATGGAGCCGATTTTCATGG
AAAGTTCTGAAGTTTGTACAAATACGTATGCCAGAGGCACAGCGGTGGAAGGCACTTCAGGAATGGAATGACCA
CTAAGCTTGGAGCAGCCACTGAATCTGGAGGTGCTGCAGGCTTTGCAACAGGGACAGTGTGAGGAGCTGCTTCAG
GATTTCGGAGCAGCCACTGGAGTTGGCATCTGTTCCCTCAGGGCAGTCTGGAACCATGAGAACAAGGCATTCCACTG
GAGGAACCAATAAGGACTACGCTGATGGGGCGATAAGCATGAATTTCTGGACTCCTACTTTTCTCAGAAAGCAT
TTGCCTGTGCGGAGGAAGACGATGGCCAGGAAGCAAATGACTGCTTGTGATCTATGATAATGAAGGCGCAGATG
CCACTGGTTCTCCTGTGGGCTCCGTGGGTGTTGCAGTTTTATTGCTGATGACCTGGATGACAGCTTCTTGGACT
CACTTGGACCCAAATTTAAAAAACTTGCAGAGATAAGCCTTGGTGTGATGGTGAAGGCAAAGAAGTTCAGCCAC
CCTCTAAAGACAGCGTTATGGGATTGAATCCTGTGGCCATCCCATAGAAGTCCAGCAGACAGGATTTGTTAAGT
GCCAGACTTTGTGAGGAAGTCAAGGAGCTTCTGCTTTGTCCGCTCTGGGTCTGTCCAGCCAGCTGTTTCCATCC
CTGACCTCTGCAGCATGGTAACTATTTAGTAACGGAGACTTACTCGGCTTCTGGTTCCCTCGTGCAACCTTCCA
CTGCAGGCTTTGATCCACTTCTCACACAAAATGTGATAGTGACAGAAAGGGTGATCTGTCCCATTTCAGTGTTTC
CTGGCAACCTAGCTGGCCCAACGCAGCTACGAGGGTCACATACTATGCTCTGTACAGAGGATCCTTGCTCCCGTC
TAATATGACCAGGAATGAGCTGGAATACCACACTGACCAATCTGGATCTTTGGACTAAAGTATTCAAAATAGCAT
AGCAAAGCTCACTGTATTGGGCTAATAATTTGGCACTTATTAGCTTCTCTCATAAACTGATCACGATTATAAATT
AAATGTTTGGGTTCATACCCCAAAAGCAATATGTTGTCACTCCTAATTCTCAAGTACTATTCAAATTTGTAGTAA
TCTTAAAGTTTTTCAAAACCCATAAATCATATTCGC

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FIGURE 558

MMGLFPRTTGALAI FVVVILVHGELRIETKGQYDEEEMTMQQA KRRQKREWVKFAKPCREGEDNSKRNP IAKITS
DYQATQKITYRISGVGIDQPPFGIFVVDKNTGDINITAIVDREETPSFLITCRALNAQGLDVEKPLILTVKILDI
NDNPPVFSQQIFMGEIEENSASNSLVMILNATDADEPNHLNSKIAFKIVSQEPAGTPMFILLSRNTGEVRTLTNSL
DREQASSYRLVSGADKDGEGLSTQCECNIVKVDVNDNPFMRDSQYSARIEENILSSELLRFQVTDLDEEYTDN
WLAVYFFTSGNEGNWFEIQTDPRTNEGILKVVKALDYEQLQSVKLSIAVKNKAEFHQSVISRYRVQSTPVTIQVI
NVREGIAFRPASKTFTVQKGISSKKLVDYILGTIQAIDEDTNKAASNVKYVMGRNDGGYLMIDSKTAEIKFVKNM
NRDSTFI VNK TITAEVLAIDEYTGKTSTGT VYVRVPDFNDNCPTAVLEKDAVCSSSPSVVVSARTLNNRYTGPYT
FALEDQPVKLPVWSITTLNATSALLRAQEQIPPGVYHISLVLTDSQNNRCEMPRSLTLEVCQCDNRGICGTSYP
TTSPGTRYGRPHSGRLGPAAIGLLLLLGLLLLLLAPLLLLLTCDCGAGSTGGVTGGFIPVPDGSEGTIHWGIEGAH
PEDKEITNICVPPVTANGADFMESSEVCTNTYARGTAVEGTSGMEMTTKLGAATESGGAAGFATGTVSGAASGFG
AATGVGICSSGQSGTMRTRHSTGGTNKDYADGAISMNFLDSYFSQKAFACAEEDDGQEANDCLLIYDNEGADATG
SPVGSVGCCSF IADDLDDSF LDSLGPKFKKLAEISLGVDGEGKEVQPPSKDSGYGIESCGHP IEVQQTGFVKCQT
LSGSQGASALSASGSVQPAVSIPDPLQHGNYLVTTETYSASGSLVQPSTAGFDPLLTONVIVTERVICPISSVPGN
LAGPTQLRGSHTMLCTEDPCSRLI

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FIGURE 559

GGCACGAGGAGCGTTTCGTTTGGACTTCTCGACTTGAGTGCCCCGCTCCTTCGCCGCCGCTCTGCAGTCCTCAG
CGCAGTTATGCCAGTTCTTCCCGCTGTGGGGACACGACCACGGAGGAATCCTTGCTTCAGGGACTCGGGACCCCT
GCTGGACCCCTTCCCTCGGGTTTAGGGGATGTGGGGACCAGGAGAAAGTCAGGATCCCTAAGAGTCTTCCCTGCCT
GGATGGATGAGTGGCTTCTTCTCCACCTAGATTCTTTCCACAGGAGCCAGCATACTTCTGAACATGGAGAGTGT
TGTTGCGCGCTGCCATTCTTATCCCGAGTCCCCAGGCCTTTCTGCAGAAAGCAGGCAAATCTCTGTTGTTCTA
TGCCCAAACTGCCCAAGATGATGGAAGTTGGGGCCAAGCCAGCCCCCTCGGGCATGTGCCACTGCAGCAGTACA
CTACCAACAGATCAAAGAAACCCCTCCGGCCAGTGAGAAAGACAAAAGTCTAAGGCCAAGGTCCAACAGACTCC
TGATGGATCCCAGCAGAGTCCAGATGGCACACAGCTTCCGTCTGGACACCCCTTGCCTGCCACAAGCCAGGGCAC
TGCAAGCAAATGCCCTTTCCTGGCAGCACAGATGAATCAGAGAGGCAGCAGTGTCTTCTGCAAAGCCAGTCTTGA
GCTTCAGGAGGATGTGCAGGAAATGAATGCCGTGAGGAAAGAGGTTGCTGAAACCTCAGCAGGCCCCAGTGTGGT
TAGTGTGAAAACCGATGGAGGGGATCCCAGTGGACTGCTGAAGAACTTCCAGGACATTATGCAAAAGCAAAGACC
AGAAAGAGTGTCTCATCTTCTTCAAGATAACTTGCCAAAATCTGTTTCCACTTTTCAGTATGATCGTTTCTTGA
GAAAAAATTGATGAGAAAAAGAATGACCACACCTATCGAGTTTTTAAAGTGTGAACCGCGCAGCACACATCTT
CCCCATGGCAGATGACTATTAGACTCCCTCATCACCAAAAGCAAGTGTGAGTCTGGTGCAGTAATGACTACCT
AGGAATGAGTCGCCACCCACGGGTGTGTGGGGCAGTTATGGACACTTTGAAACAACATGGTGTGTTGGGCAGGTGG
TACTAGAAATATTTCTGGAAGTAGTAAATTCATGTGGACTTAGAGCGGGAGCTGGCAGACCTCCATGGGAAAGA
TGCCGCACTCTTGTTTTCTCGTGCTTTGTGGCCAATGACTCAACCCCTTCCACCCTGGCTAAGATGATGCCAGG
CTGTGAGATTTACTCTGATTCTGGGAACCATGCCTCCATGATCCAAGGGATTGCAAACAGCCGAGTGCCAAAGTA
CATCTTCCGCCACAATGATGTCAGCCACCTCAGAGAACTGCTGCAAAGATCTGACCCCTCAGTCCCCAAGATTGT
GGCATTGAAACTGTCCATTCAATGGATGGGGCGGTGTGCCCACTGGAAAGAGCTGTGTGATGTGGCCCATGAGTT
TGGAGCAATCACCTTCGTGGATGAGGTCCACGCAGTGGGGCTTTATGGGGCTCGAGGCGGAGGGATTGGGGATCG
GGATGGAGTCATGCCAAAATGGACATCATTTCTGGAACACTTGGCAAAGCCTTTGGTTGTGTTGGAGGGTACAT
CGCCAGCACGAGTTCTCTGATTGACACCGTACGGTCCCTATGCTGCTGGCTTCATCTTACCACCTCTCTGCCACC
CATGCTGCTGGCTGGAGCCCTGGAGTCTGTGCGGATCCTGAAGAGCGCTGAGGGACGGGTGCTTCGCCGCCAGCA
CCAGCGCAACGTCAAACCTCATGAGACAGATGCTAATGGATGCCGGCCTCCCTGTTGTCCACTGCCCCAGCCACAT
CATCCCTGTGCGGGTTGCAGATGCTGCTAAAAACACAGAAGTCTGTGATGAACTAATGAGCAGACATAACATCTA
CGTGCAAGCAATCAATTACCCTACGGTGCCCCGGGGAGAAGAGCTCCTACGGATTGCCCCCACCCCTCACCACAC
ACCCAGATGATGAACTACTTCTTGAGAATCTGCTAGTCACATGGAAGCAAGTGGGGCTGGAAGTGAAGCCTCA
TTCCTCAGCTGAGTGCAACTTCTGCAGGAGGCCACTGCATTTTGAAGTGATGAGTGAAAGAGAGAAGTCTATTT
CTCAGGCTTGAGCAAGTTGGTATCTGCTCAGGCCTGAGCATGACCTCAATTATTTCACTTAACCCAGGCCATTA
TCATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAAATTTTAATCTATAGTAAAAAC
ATAGTCCTGGAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 560

MESVVRRCPFLSRVPQAFLOKAGKSLLFYAQNCPKMMEVGAKPAPRALSTAAVHYQQIKETPPASEKDKTAKAKV
QQTPDGSQQSPDGTQLPSGHPLPATSQGTASKCPFLAAQMNQRGSSVFCKASLELQEDVQEMNAVRKEVAETSAG
PSVVSVKTDGGDP SGLLNKFQDIMQKQRPERSHLLQDNLPKSVSTFYDRFFEKKIDEKKNDHTYRVFKTVNRR
AHIFPMADDYSDSLITKKQVSVWCSNDYLGMSRHPRVCGAVMDTLKQHGAGAGGTRNISGTSKFHVDLERELADL
HGKDAALLFSSCFVANDSTLFTLAKMMPGCEIYSDSGNHASMIQGIRNSRVPKYIFRHNDVSHLRELLQRSDPSV
PKIVAFETVHSMDGAVCPLEELCDVAHEFGAITFVDEVHAVGLYGARGGGIGDRDGVMPKMDIISGTLGKAFCV
GGYIASTSSLIDTVRSYAAGFI FTSLPPMLLAGALESVRILKSAEGRVLRQHQQRNVKLMRQMLMDAGLPVVHC
PSHIIPVRVADAANKTEVCDELMSRHNIYVQAINYPTVPRGEELLRIAPTPHHTPQMMNYFLENLLVTWKQVGLE
LKPHSSAECNFCRRPLHFEVMSEREKSYFSGLSKLVSAQA

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FIGURE 561

ACAGAGATGGCACTGATGCAGGAAGTGTATAGCACACCAGCCTCCAGGCTGGACTCCTTCGTGGCTCAGTGGCTG
CAGCCCCACCGGGAGTGGAAAGGAAGAGGTGCTAGACGCTGTGCGGACCGTGGAGGAGTTTCTGAGGCAGGAGCAT
TTCCAGGGGAAGCGTGGGCTGGACCAGGATGTGCGGGTGTGAAAGGTAGTCAAGGTGGGCTCCTTCGGGAATGGC
ACGGTTCTCAGGAGCACCAGAGAGGTGGAGCTGGTGGCGTTTCTGAGCTGTTTCCACAGCTTCCAGGAGGCAGCC
AAGCATCACAAAGATGTTCTGAGGCTGATATGGAACCATGTGGCAAAGCCAGGACCTGCTGGACCTCGGGCTC
GAGGACCTGAGGATGGAGCAGAGAGTCCCCGATGCTCTTGTCTTACCATCCAGACCAGGGGGACTGCGGAGCCC
ATCACGGTCACCATTTGTGCCTGCCTACAGAGCCCTGGGGCCTTCTCTTCCCACTCCCAGCCACCCCTGAGGTC
TATGTGAGCCTGATCAAGGCCTGCGGTGGTCTGGAATTTCTGCCCATCCTTCAGCGAGCTGCAGAGAAATTTCT
GTGAAACATCGGCCAACTAAGCTGAAGAGCCTCCTGCGCCTGGTGAAACACTGGTACCAGCAGTATGTGAAAGCC
AGGTCCCCCAGAGCCAATCTGCCCCCTCTCTATGCTCTTGAACCTCTAACCATCTATGCCTGGGAAATGGGTACT
GAAGAAGACGAGAATTTTCATGTTGGACGAAGGCTTACCACCTGTGATGGACCTGCTCCTGGAGTATGAAGTCATC
TGTATCTACTGGACCAAGTACTACACACTCCACAATGCAATCATTGAGGATTGTGTCAGAAAACAGCTCAAAAAA
GAGAGGGCCCATCATCCTGGATCCGGCCGACCCACCCCTCAACGTGGCAGAAGGGTACAGATGGGACATCGTTGCT
CAGAGGGCCTCCCAGTGCCTGAAACAGGACTGTTGCTATGACAACAGGGAGAACCCCATCTCCAGCTGGAACGTG
AAGAGGGCACGAGACATCCACTTGACAGTGGAGCAGAGGGGTACCCAGATTTCAACCTCATCGTGAACCCCTTAT
GAGCCCATAAGGAAGGTTAAAGAGAAAATCCGGAGGACCAGGGGCTACTCTGGCCTGCAGCGTCTGTCTTCCAG
GTTCTGAGCAGTGGAGGCAGCTTCTCAGCAGCAGGTGCTCCTTAGCCAAATATGGGATCTTCTCCACACTCAC
ATCTATCTGCTGGAGACCATCCCCTCCGAGATCCAGGTCTTCGTGAAGAATCCTGATGGTGGGAGCTACGCCTAT
GCCATCAACCCCAACAGCTTCTATCCTGGGTCTGAAGCAGCAGATTGAAGACCAGCAGGGGCTTCTTAAAAAGCAG
CAGCAGCTGGAATTTCAAGGCCAAGTCTGTCAGGACTGGTTGGGTCTGGGGATCTATGGCATCCAAGACAGTGAC
ACTCTCATCCTCTCGAAGAAGAAAGGAGAGGCTCTGTTTCCAGCCAGT**TAG**TTTTCTCTGGGAGACTTCTCTGTA
CATTTCTGCCATGTACTCCAGAACTCATCCTGTCAATCACTCTGTCCCATTGTCTACTGGGAAGGTCCCAGGTCT
TCACCAGTTTTACAATGAGTTATCCCAGGCCAGACGTGGTAGCTCACACCTGTAATCCCAGAACTTTGGGAGGCC
GAGGTGGGAGGAGCGCTTGAGCCGAGGAGTTCAAGACCAGCCTGGGTATCATAGGGAGACCCCGTCTCTACAAAA
TAAAAAATAATTCAGTGGG

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FIGURE 562

MALMQELYSTPASRLDSFVAQWLQPHREWKEEVLDVAVRTVEEF LRQEHFQGKRGLDQDVRVLKVVKVGSFGNGTV
LRSTREVELVAFLSCFHSFQEAAKHHKDVLRLIWKTMWQSQDLLDLGLEDLRMEQRVPDALVFTIQTRGTAEPIIT
VTIVPAYRALGPSLPNSQPPPEVYVSLIKACGGPGNFCPSFSELQRNFVKHRPTKLKSLLRLVKHWYQQYVKARS
PRANLPPLYALELLTIYAWEMGTEEDENFMLDEGFTTVMDLLEYEVICIYWKYYTLHNAIIEDCVRKQLKKER
PIILD PADPTLNVAEGYRWDIVAQRASQCLKQDCCYDNRENPISSWNVKRARDIHLTVEQRGYPDFNLIVNPYEP
IRKVKEKIRRTRGYSGLQRLSFQVPGSERQLLSSRCSLAKYGIFSHTHIYLLLETIPSEIQVFVKNPDGGSYAYAI
NPNSFILGLKQQIEDQQGLPKKQQQLEFQGQVLQDWLGLGIYGIQSDTLILSKKKGEALFPAS

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FIGURE 563

CACAACCTAGTCCAGAGCCTCACAGTCCTACTGAACCTCCTGTCATGGGGCAGCAGTATTGTGAAAGTTCCGCTCTG
GTATATTTGATGTCAACAGCAGGAAAAGTAGCACTGGTAGTATATCAAATGTGCTGTTTTCTACTCAAGATCCAG
TTGAAGATGCAGTCTTTGGCGAAGCTACTAATCTCAAGAAGAATGGTGATAGAGGAGAAAAAGACAAAAGCATT
TTCCTGAGAGGAGTTGTAGTTTTAGTTCTGAAAGTCGAGCAGGAATGTTGCTTAAGAAGAGTAGTTTGGATTCTGA
ATTCAGTGAAATGGCTATCATGATGGGAGCAGATGCCAAGATTCTCACAGCAGCATTGACATGTCCTAAGACTT
CTCTACTTCATATTGCAAGAACCCATAGCTTTGAGAATGTTAGCTGTCACCTACCTGATAGTAGGACTTGTATGT
CTGAAAGCACTTGGAATCCTGAGCACAGATCATCTCCGGTGCCAGAGATGCTTGAGGAAAGCCAAGAACTCCTTG
AGCCTGTGGTTGATGACGTACCTAAACTACTGCAACAGTAGATACATATGAGAGTCTACTAAGTGATAGTAACA
GTAATCAGTCCAGAGACTTGAAAACAGTATCCAAAGATCTGAGAAATAAGAGAAGTAGTTTATATGGTATTGCTA
AGGTGGTTTCAAGAGGAAGATGTTGAAACTGGACTAGATCCTTTGTCTCTTTTAGCCACTGAATGTACAGGAGGAA
AAACTCCTGATTCTGAAGATAAGTTGTTTTCTCCAGTTATTGCACGTAATCTGGCTGATGAAATAGAAAGCTATA
TGAACCTAAAAAGTCCCCTAGGTAGTAAATCTTCTAGTATGGAATTACACAGAGAGGAAAACAGAGAGTCTGGCA
TGACTACTGCATTTATTATGCTCTAGAGAGGAGATCAAGCCTACCTTTAGATCATGGTTTACCAGCACAGGAAA
ATCCTGAAAGTGAAAAGAGCTCACCTGCAGTGTCCAGGTCTAAAACCTTTTACTGGGCGTTTCAAGCAGCAAACCC
CCTCTCGAACTCATAAAGAAGCTTCAACTTCTTTGTCAGCACTGGTGCCTTCTTCGCCACATGGCTCGTTGGGTT
CTGTAGTAAATTCTTTGTCAGGGCTAAAGCTGGATAATATACTCTCAGGGCCCAAGATAGATGTCCTGAAATCTG
GTATGAAACAAGCAGCGACAGTAGCCAGTAAGATGTGGGTAGCTGTTGCGTCTGCCTACAGCTACTCAGATGATG
AGGAAGAACTAATAGAGACTACAGCTTCCCAGCTGGCCTAGAAGACCATATTTTGGGGGAGAATATATCGCCTA
ACACAAGTATCTCAGGGTTGGTCCCCAGTGAACCTTACCCAGAGCAACACAAGTCTTGGCAGTAGCAGCAGTAGTG
GAGATGTAGGAAAAGTGCATTATCCAACAGGTGAAGTTCATTTCGAAGAGGCATGAAAGGGCAAGACTTTGAAA
AATCAGATCATGGTTCTTCTCAAAATACCAGCATGTCTAGCATCTATCAGAATTGTGCAATGGAGGTTTGTATGT
CCAGTTGTTTACAGTGTAGAGCTTGTGGAGCTTTAGTTTATGATGAAGAAATTATGGCTGGATGGACAGCAGATG
ACTCAAATTTGAATACAGCTTGTCCATTCTGTAAAAGCAACTTCTTGCCCTCTTCTCAATATAGAATTCAAAGATT
TGAGAGGTTCTGCAAGCTTTTTCTGAAACCAAGTACCTCTGGTGACAGTTTACAAAGTGGAAGCATTCCATTGG
CAAATGAATCCTTGGAGCACAAACCTGTATCCAGTTTAGCAGAACCTGACTTGATCAACTTTATGGACTTCCCAA
AACATAACCAGATCATACTGAAGAAACAGGCTCTGCAGTTGAACCAAGTGATGAAATAAAGAGAGCCAGTGGAG
ATGTCCAAACTATGAAAATTTATCTGTGCTAATAGTTTATCAAAGCGAAATGTGTCTTTGACTCGAAGTCACA
GTGTTGGAGGCCCATTCAGAAATATTGACTTTACCCAGCGACCGTTTCATGGCATCTCAACAGTTAGTCTTCCAA
ATAGTCTGCAGGAAGTTGTGGATCCTTTAGGAAAAAGACCCAATCCTCCCCCTGTTTCTGTGCCCTACTTGAGTC
CTCTAGTACTCCGTAAAGAACTTGAATCTTTGCTAGAAAATGAAGGTGATCAGGTGATTACATACATCTTCTTTCA
TCAATCAACATCCAATCATTTTCTGGAACCTCGTTTGGTATTTTACAGAGTTTGGACCTTCTAGTAACTTGCCAG
GACTTATCCTCACATCTGAACATTGTAATGAAGGTGTACAGCTTCTCTGTCTATCTGTCTCCAGGATAGCAAAC
TTGTGTATATTAGCTGTTATGGGATAATATCAACCTTCATCAGGAACCAAGAGAACCTCTGTATGTCTCATGGA
GGAATTTTAATTCTGAAAAGAAATCATCTCTCCTGTGAGAGGAACAACAAGAAACAAGCACTTTAGTAGAAACCA
TCAGGCAGAGTATTAGCACAATAATGTTCTTAAACCCATCAACCTACTTTACAGCAAATGAAGCCAGGCATGA
AAAGACAAAGAGGCATTGACAATGAATATGGAATTGCATACAATAGTCTGTCTTCAGAGATTCTTGAAAGGTTG
CAGAAAATTGATGCTCCACCAAGTGCCAGTGTGAGTGGTGCAGGAAGTGTGTTTGGAGCGCTCTCATTATAATA
GAGATTCACTAGAATGTTGACACACAAGGCTTGGGGATTAGATTTTATCTGGAACATTCAAGTTTTTTTTTTCC
AAATCGTAAGAAGTGGTGAATACGGAATTGAAGTAACTCTTGGGGACAATATATAATGAATTATGATTCATATTG
CATTACCTTGAAATATGAAGTGCCATTGAAATGTCCAGGGCTTATTAATATTGAAGATTTTCAACCCCTGAAC
GCTTTTCTGCCTCTGTGGAAAACTACTTTGGGATTCTTTCAGTATTTGTAGTAGTTTGTAGAAATAATGAGGAAC
CATATTCACTTCTAGGCATTGTTTATATTTGAAGTTACTGAGTTTGGGAATGGCAAATTAATTTGCTTAACCCC
CAAAACAAATGAAATATCTCAATTATAAAAGCAACATGGCCGGGCACGGTGGCTCAGGCCTGTAATCCCAGCACT
TTGGGAGGCTGAGCAAGGTGGGTGGATCACTTGAGGCCAGGAGTTTCAGAGCCAGCCTGGCCAACACGGTGAGACC
CTGTCTTTACTAAAAATACAAAAATTAGCCAGGCGCACCCTGTAGTCCCAGCTACTCAGGCTGAGGCAGGAGAA
TCGCTTGAAGTGAAGGCAGAGGCTACAGTGAGTGGAGATCACGCCACTGCAACTCCAGCTTGGGTGACAGAGTGAG
ACCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 564

MLKKSSLDNSSEMAIMMGADAKILTAALTCPKTSLHIAITHSFENVSCHLPDSRTCMESESTWNPEHRSSPVP
EMLEESQELLEPPVDDVPKTTATVDTYESLLSDSNSNQSRDLKTVSKDLRNKRSSLYGIAKVQREDVETGLDPL
SLLATECTGGKTPDSEDKLFSPVIARNLADEIESYMNKSPLGSKSSSMELHREENRESGMTTAFIHALERRSSL
PLDHGSPAQENPESEKSSPAVSRSKTFTGRFKQQTSPSRTHKERSTSLSALVRSSPHGSLGSVNSLSGLKLDNIL
SGPKIDVLKSGMKQAATVASKMWAVASAYSYSDDDEEETNRDYSFPAGLEDHILGENISPNTSISGLVPSELTQS
NTSLGSSSSSGDVGKLHYPTGEVPFPRGMKGQDFEKS DHGSSQNTSMSSYQNCAMEVLMSSCSQCRACGALVYD
EEIMAGWTADDSNLNTACPFCKSNFLPLLNIEFKDLRGSASFFLKPSTSGDSLQSGSIPLANESLEHKPVSSLAE
PDLINFMDFPKHNQIIITEETGSAVEPSDEIKRASGDVQTMKISSVPNSLSKRNVS LTRSHSVGGPLQNIDFTQRP
FHGISTVSLPNSLQEVVDPLGKRPNPPVSVPYLSPLVLRKELES LLENEGDQVIHTSSFINQHPIIFWNLVWYF
RRDLPSNLPLGLILTSEHCNEGVLPLSSLSQDSKLVYIQLLWDNINLHQEPREPLYVSWRNFNSEKKSSLLSEE
QQETSTLVETIRQSIQHNNVLKPINLLSQQMKPGMKRQRGI

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FIGURE 565

CAGCACCCAGCTCCCCGCCACCGCC**ATGG**TCCCCGACACCGCCTGCGTTCTTCTGCTCACCTGGCTGCCCTCGG
CGCGTCCGGACAGGGCCAGAGCCCGTTGGGCTCAGACCTGGGCCCCGAGATGCTTCGGGAAGTGCAGGAAACCAA
CGCGGCGCTGCAGGACGTGCGGGACTGGCTGCGGCAGCAGGTGAGGAGATCACGTTCTGAAAAACACGGTGAT
GGAGTGTGACGCGTGCGGGATGCAGCAGTCAGTACGCACCGGCCCTACCCAGCGTGCGGGCCCCTGCTCCACTGCGC
GCCCCGCTTCTGCTTCCCCGGCGTGCCCTGCATCCAGACGGAGAGCGGGCGGCCGCTGCGGGCCCCTGCCCCGCGGG
CTTCACGGGCAACGGCTCGCACTGCACCGACGTCAACGAGTGCAACGCCACCCCTGCTTCCCCGAGTCCGCTG
TATCAACACCAGCCCGGGGTTCCGCTGCGAGGCTTGCCCGCGGGGTACAGCGGCCCCACCCACCAGGGCGTGGG
GCTGGCTTTCGCCAAGGCCAAACAAGCAGGTTTGACGGACATCAACGAGTGTGAGACCGGGCAACATAACTGCGT
CCCCAACTCCGTGTGCATCAACACCCGGGGCTCCTTCCAGTGCGGGCCCGTGCCAGCCCGGCTTCGTGGGCGACCA
GGCGTCCGGCTGCCAGCGCGGCGCACAGCGCTTCTGCCCGACGGCTCGCCAGCGAGTGCCACGAGCATGCAGA
CTGCGTCTAGAGCGCGATGGCTCGCGGTGCTGCGTGTGTCGCTTGGCTGGGCGGCAACGGGATCCTCTGTGG
TCGCGACACTGACCTAGACGGCTTCCCCGACGAGAAGCTGCGCTGCCCGGAGCCGAGTGCCGTAAGGACAAGT
CGTGACTGTGCCAACTCAGGGCAGGAGGATGTGGACCGCGATGGCATCGGAGACGCTGCGATCCGGATGCCGA
CGGGGACGGGGTCCCCAATGAAAAGGACAAGTGCCCGCTGGTGCGGAACCCAGACCAGCGCAACACGGACGAGGA
CAAGTGGGGCGATGCGTGCGACAAGTGCCGTTCCAGAAGAACGACGACCAAAAGGACACAGACCAGGACGGCCG
GGGCGATGCGTGCGACGACGACATCGACGGCGACCGGATCCGCAACCAGGCCGACAAGTGCCTAGGGTACCCAA
CTCAGACCAGAAGGACAGTGATGGCGATGGTATAGGGGATGCCTGTGACAAGTGTCCCCAGAAGAGCAACCCGGA
TCAGGCGGATGTGGACCACGACTTGTGGGAGATGCTTGTGACAGCGATCAAGACCAGGATGGAGACGGACATCA
GGACTCTCGGGACAAGTGTCCACGGTGCCCTAACAGTGCCAGGAGGACTCAGACCAGATGGCCAGGGTGATGC
CTGCGACGACGACGACGACAATGACGGAGTCCCTGACAGTCGGGACAAGTGCCTGCTGCTTAAACCCCGGCCA
GGAGGACGCGGACAGGGACGGCGTGGGCGACGTGTGCCAGGACGACTTGTATGCAGACAAGGTGGTAGACAAGAT
CGACGTGTGTCCGGAGAACGCTGAAGTCACGCTCACCGACTTCAGGGCCTTCCAGACAGTCGTGCTGGACCCGGA
GGGTGACGCGCAGATTGACCCAACTGGGTGGTGCTCAACCAGGGAAGGGAGATCGTGACAGACAATGAACAGCGA
CCCAGGCCTGGCTGTGGGTACACTGCCTTCAATGGCGTGGACTTCGAGGGCACGTTCCATGTGAACACGGTCAC
GGATGACGACTATGCGGGCTTCATCTTTGGCTACCAGGACAGCTCCAGCTTCTACGTGGTCATGTGGAAGCAGAT
GGAGCAAACGTATTGGCAGGCGAACCCCTTCCGTGCTGTGGCCGAGCCTGGCATCCAAGCTCAAGGCTGTGAAGTC
TTCCACAGGCCCCGGGGAACAGCTGCGGAACGCTCTGTGGCATAACAGGAGACACAGAGTCCCAGGTGCGGCTGCT
GTGGAAGGACCCGCGAAACGTGGGTGGAAGGACAAGAAGTCCTATCGTTGGTTCTTGACAGCACCGGCCCAAGT
GGGCTACATCAGGGTGCGATTCTATGAGGGCCCTGAGCTGGTGGCCGACAGCAACGTGGTCTTGGACACAACCAT
GCGGGGTGGCCGCTGGGGGTCTTCTGCTTCTCCCAGGAGAACATCATCTGGGCCAACCTGCGTTACCGCTGCAA
TGACACCATCCCAGAGGACTATGAGACCCATCAGCTGCGGCAAGCT**TAGG**GACCAGGGTGAGGACCCGCCGGATG
ACAGCCACCTCACCGCGGCTGGATGGGGGCTCTGCACCCAGCCCAAGGGGTGGCCGTCTGAGGGGGAAGTGAG
AAGGGCTCAGAGAGGACAAAATAAAGTGTGTGTGCAGGG

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FIGURE 566

MVPDTACVLLLLTLAÄLGASGQGQSPLGSDLGPQMLRELQETNAALQDVRDWLRQQVREITFLKNTVMECDACGMQ
QSVRTGLPSVRPLLHCAPGFCFPGVACIQTESGGRCGPFCAGFTGNGSHCTDVNECNAHPCFPRVRCINTSPGFR
CEACPPGYSGPTHQGVGLAFKANKQVCTDINECETGQHNCVPNSVCINTRGSFQCGPCQPGFVGDQASGCQGA
QRFCDGSPSECHEHADCVLERDGSRSVCVRVGWAGNGILCGRD TDLDGFPDEKLRCPEPQCRKDNCVTVPNSGQ
EDVDRDGIGDACDEPDADGDGVPNEKDNCPLVRNPDQRNTDEDKWDACDNCRSQKNDDQKDTDQDGRGDACDDDI
DGDRIRNQADNCPRVPNSDQKDSGDGIGDACDNCPOKSNPDQADVHDHFVGDACDSDQDQDGDGHQDSRDNCPT
VPNSAQEDSDHDGQGDACDDDDNDGVPDSRDNCRLVPNPGQEDADRDGVGDVCQDDFDADKVVDKIDVCPENAE
VLTIDFRAFQTVVLDPEGDAQIDPNWVVLNQGRIEIVQTMNSDPGLAVGYTAFNGVDFEGTFHVNTVTDDDYAGFI
FGYQDSSSFYVVMWKQMEQTYWQANPFRAVAEPGIQLKAVKSSTGPGEQLRNALWHTGDTESQVRLLWKDPRNVG
WKDKKSYRWFLQHRPQVGYIRVRFYEGPELVADSNVVLDTTMRGGRLGVFCFSQENI IWANLRYRCNDTIPEDYE
THQLRQA

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FIGURE 567

GGGGTGGTGCAGGGCAGGGGTGGTATATCCTGTCTGACGGAGGGCGGGCCTCGCCAGTGCCAGAGAGGGACGAAC
CAGGGTGGAAGCGCCAGGAGCAGCTGCAGGGAGCCCTCACGCGGACCTCGCACTCTATGGCCGTAGGGAGCCGCT
GAGAGCGAGAAGAGCACGCTCCTGCCCCGCCGCTGCACCGCACCTCGCCTCGCCTCTCTGCTCTCTAGGCCCG
GCCGCGCGCCACCCGCTCCCGCCACCATGAACCCTCGCCGCTCAAGACCGCCTTGGCGTACGAATGCTTCCAG
GACCAGGACAACCTCCACGTTGGCTTTGCCGTCGGACCAAAGATGAAAACAGGCACGTCTGGCAGGCAGCGCGTG
CAGGAGCAGGTGATGATGACCGTCAAGCGGCAGAAGTCCAAGTCTTCCCAGTCGTCCACCCTGAGCCACTCCAAT
CGAGGTTCCATGTATGATGGCTTGGCTGACAATTACAACCTATGGGACCACCAGCAGGAGCAGCTACTACTCCAAG
TTCCAGGCAGGGAATGGCTCATGGGGATATCCGATCTACAATGGAACCCTCAAGCGGGAGCCTGACAACAGGCGC
TTCAGCTCCTACAGCCAGATGGAGAAGTGGAGCCGGCCTACCCCCGGGGCAGCTGTAACACCACCGGCGCAGGC
AGCGACATCTGCTTCATGCAGAAAATCAAGGCGAGCCGAGTGAGCCCCGACCTCTACTGTGACCCACGGGGCACC
CTGCGCAAGGGCAGCTGGGCAGCAAGGGCCAGAAGACCACCCAGAACCGCTACAGCTTTTACAGCACCTGCAGT
GGTCAGAAGGCCATAAAGAAGTGCCCTGTGCGCCCGCCCTCTTGTGCCCTCCAAGCAGGACCCTGTGTATATCCCCG
CCCATCTCCTGCAACAAGGACCTGTCCCTTGGCCACTCTAGGGCCAGCTCCAAGATCTGCAGTGAGGACATCGAG
TGCAGTGGGCTGACCATCCCCAAGGCTGTGCAGTACCTGAGCTCCCAGGATGAGAAGTACCAGGCCATTGGGGCC
TATTACATCCAGCATACCTGCTTCCAGGATGAATCTGCCAAGCAACAGGTCTATCAGCTGGGAGGCATCTGCAAG
CTGGTGGACCTCCTCCGAGCCCCAACCAGAACGTCCAGCAGGCCGCGGCAGGGGCCCTGCGCAACCTGGTGTTT
AGGAGCACCAACAAGCTGGAGACCCGGAGGCAGAATGGGATCCGCGAGGCAGTCAGCCTCCTGAGGAGAACC
GGGAACGCCGAGATCCAGAAGCAGCTGACTGGGCTGCTCTGGAACCTGTCTTCCACTGACGAGCTGAAGGAGGAA
CTCATTGCCGACGCCCTGCCTGTTCTGGCCGACCGGTCATCATTCCCTTCTCTGGCTGGTGCGATGGCAATAGC
AACATGTCCCGGAAGTGGTGGACCCCTGAGGTCTTCTTCAATGCCACAGGCTGCTTGAGGAACCTGAGCTCGGCC
GATGCAGGCCCGCCAGACCATGCGTAACTACTCAGGGCTCATTGATTCCCTCATGGCCTATGTCCAGAAGTGTGTA
GCGGCCAGCCGCTGTGACGACAAGTCTGTGGAAAAGTGCATGTGTGTTCTGCACAACCTCTCCTACCGCCTGGAC
GCCGAGGTGCCCCACCCGCTACCGCCAGCTGGAGTATAACGCCCCGAACGCCTACACCGAGAAGTCTCCACTGGC
TGCTTCAGCAACAAGAGCGACAAGATGATGAACAACAACCTATGACTGCCCCCTGCCTGAGGAAGAGACCAACCCC
AAGGGCAGCGGCTGGTTGTACCATTCAGATGCCATCCGCACCTACCTGAACCTCATGGGCAAGAGCAAGAAAGAT
GCTACCCTGGAGGCCTGTGCTGGTGCCCTGCAGAACCTGACAGCCAGCAAGGGGCTGATGTCCAGTGGCATGAGC
CAGTTGATTGGGCTGAAGGAAAAGGGCCTGCCACAAATTGCCCCCTCCTGCAATCTGGCAACTCTGATGTGGTG
CGGTCCGGAGCCTCCCTCCTGAGCAACATGTCCCGCCACCCTCTGCTGCACAGAGTGATGGGGAACCAAGGTGTTT
CCGGAGGTGACCAGGCTCCTCACCAGCCACACTGGCAATACCAGCAACTCCGAAGACATCTTGTCTCGGCCCTGC
TACACTGTGAGGAACCTGATGGCCTCGCAGCCACAACCTGGCCAAGCAGTACTTCTCCAGCAGCATGCTCAACAAC
ATCATCAACCTGTGCCGAAGCAGTGCCCTACCCCAAGGCCGAGAAGCTGCCCGGCTTCTCCTGTCTGACATGTGG
TCCAGCAAGGAAGTGCAGGGTGTCTCAGACAGCAAGGTTTCGATAGGAACATGCTGGGAACCTTAGCTGGGGCC
AACAGCCTCAGGAACCTTACCTCCCGATTCTTAAGAAGAGACTGTCCAAGCAAGTTAGGCTTGAGGAAGATATGA
CCCAGCTGAGAAGCCCTCAGGCCTCGCTGGATGGGGTTTTCTGTCCATCCTGTGCAGTATTTGGGAAAAGTTCACA
AGAACTGAGAAGAAACCTAAAACTGTGGATAGTGGAAAGATTTTTAGATTTTTTTTTTCTTGGGGAAACTGG
CAGGCAATGGGGGTTAGGGAGGTTGGGGCGGGGGGGCTTTCTTGAGTTAAAGGG

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FIGURE 568

MNHSPLKTALAYECFQDQDNSTLALPSDQKMKTGTSGRQRVQEQVMMTVKRQKSKSSQSSTLSHSNRGSMYDGLA
DNYNYGTTSRSSYYSKFQAGNGSWGYPYINGTLKREPDNRRFSSYSQMENWSRHYPRGSCNTTGAGSDICFMQKI
KASRSEPDLYCDPRGTLRKGTLGSKGQKTTQNRYSFYSTCSGQKAIKKCPVRPPSCASKQDPVYIPPI SCNKDLS
FGHSRASSKICSEDIECSGLTIPKAVQYLSSQDEKYQAIGAYYIQHTCFQDESAKQQVYQLGGICKLVDLLRSPN
QNVQQAAGALRNLFVFRSTTNKLETRRQNGIREAVSLLRRTGNAEIQKQLTGLLWNLSSDELKEELIADALPVL
ADRVIIIPFSGWCDGNSNMSREVVDPEVFFNATGCLRNLSSADAGRQTMRNYSGLIDSLMAYVQNCVAASRCDDKS
VENCMCVLHNL SYRLDAEVPTRYRQLEYNARNAYTEKSSTGCF SNKSDKMMNNNYDCPLPEEETNPKGSGWLYHS
DAIRTYLNL MGKSKKDATLEACAGALQNL TASKGLMSSGMSQLIGLKEKGLPQIARLLQSGNSDVVRSGASLLSN
MSRHPLLHRVMGNQVFPEVTRLLTSHTGNTS NSEDILSSACYTVRNLMASQPQLAKQYFSSSMLNNI INLCRSSA
SPKAAEAARLLLSDMWSSKELQGVLRQQGFDRNMLGTLAGANSLRNFTSRF

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FIGURE 569

GGGAAGCTCCAGGCAAACAGCCCAGCAAACAGCAGCACTCAGCTAAAAGGAAGACTCACAGAACACAGTTGAAGA
AGGAAAGTGGCGATGGACCTCATCCCAAATTTGGCGGTGGAAACCTGGCTTCTCCTGGCTGTCAGCCTGGTGCTC
CTCTATCTATATGGGACCCGTACACATGGACTTTTTAAGAGACTGGGAATTCCAGGGCCCCACACCTCTGCCTTTG
TTGGGAAATGTTTTGTCTATCGTCAGGGTCTCTGGAAATTTGACACAGAGTGCTATAAAAAAGTATGGAAAAATG
TGGGGAACGTATGAAGGTCAACTCCCTGTGCTGGCCATCACAGATCCCGACGTGATCAGAACAGTGCTAGTGAAA
GAATGTTATTCTGTCTTCACAAATCGAAGGTCTTTAGGCCAGTGGGATTTATGAAAAAGTGCCATCTCTTTAGCT
GAGGATGAAGAATGGAAGAGAATACGGTCATTGCTGTCTCCAACCTTCACCAGCGGAAAACTCAAGGAGATGTTT
CCCATCATTGCCCAGTATGGAGATGTATTGGTGAGAACTTGAGGCGGGAAGCAGAGAAAAGGCAAGCCTGTCACC
TTGAAAGACATCTTTGGGGCCTACAGCATGGATGTGATTACTGGCACATCATTGGAGTGAACATCGACTCTCTC
AACAAATCCACAAGACCCCTTTGTGGAGAGCACTAAGAAGTTCTTAAATTTGGTTTCTTAGATCCATTATTTCTC
TCAATAATACTCTTTCCATTCTTTACCCAGTTTTTTGAAGCATTAAATGTCTCTCTGTTTCCAAAAGATACCATA
AATTTTTTAAGTAAATCTGTAAACAGAATGAAGAAAAGTCGCCTCAACGACAAACAAAAGCACCGACTAGATTTT
CTTCAGCTGATGATTGACTCCCAGAATTCGAAAGAACTGAGTCCCACAAAGCTCTGTCTGATCTGGAGCTCGCA
GCCAGTCAATAATCTTCATTTTTTGCTGGCTATGAAACCACCAGCAGTGTTCTTTCTTCCTTCACTTTATATGAACG
GCCACTCACCTGATGTCCAGCAGAACTGCAAAAGGAGATTGATGCAGTTTTGCCCAATAAGGCACCACCTACC
TATGATGCCGTGGTACAGATGGAGTACCTTGACATGGTGGTGAATGAAACACTCAGATTATCCAGTTGCTATT
AGACTTGAGAGGACTTGCAAGAAAGATGTTGAAATCAATGGGGTATTTCATTCCCAAAGGGTCAATGGTGGTGATT
CCAACTTATGCTCTTCACCATGACCCAAAGTACTGGACAGAGCCTGAGGAGTCCGCCCTGAAAGGTTTCAGTAAG
AAGAAGGACAGCATAGATCCTTACATATACACACCCTTTGGAACCTGGACCCAGAACTGCATTGGCATGAGGTTT
GCTCTCATGAACATGAACTTGCTCTAATCAGAGTCCTTCAGAACTTCTCCTTCAAACCTTGTAAGAAACACAG
ATCCCCTTGAAATTAGACACGCAAGGACTTCTTCAACCAGAAAAACCCATTGTTCTAAAGGTGGATTCAAGAGAT
GGAACCCTAAGTGGAGAAATGAGTTATTCTAAGGATTTCTACTTTGGTCTTCAAGAAAGCTGTGCCCCAGAACACC
AGAGATTTCAACTTAGTCAATAAAACCTTGAAATAAAGATGGGCTTAATCTAATGTA

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FIGURE 570

MDLIPNLAVETWLLLAVSLVLLYLYGTRTHGLFKRLGIPGPTPLPLGNVLSYRQGLWKFDTECYKKYGKMWGTY
EGQLPVLAITDPDVIRTVLVKECYSVFTNRRSLGPVGFMKSAISLAEDEEWKRIRSLLSPTFTSGKLKEMFPIIA
QYGDVLVRNLRREAEGKGPVTLKDIFGAYSMDVITGTSFGVNIDSLNNPQDPFVESTKKFLKFGFLDPLFLSIIL
FPFLTPVFEALNVSLFPKDTINFLSKSVNRMKKSRLNDKQKHRLDFLQLMIDSQNSKETESHKALSDELEAAQSI
IFIFAGYETTSSVLSFTLYELATHPDVQQKLQKEIDAVLPNKAPPTYDAVVQMEYLDMMVNETLRLFPVAIRLER
TCKKDVEINGVFIPKGS MVVIPTYALHHD PKYWTEPEEFRPERFSKKKDSIDPYIYTPFGTGPRNCIGMRFALMN
MKLALIRVLQNF SFKPCKETQIPLKLD TQGLLQPEKPIVLKVDSRDGTL SGE

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FIGURE 571A

TCACCTGCCTGATATTTCCAGTGTGACAGGGACACAGCCAACTGGGGTCCCTTCTAGGCTGACAGCCGCTCTCC
AGCCACTGCCGCGAGCCCGTCTGCTCCCGCCCTGCCCGTGCACCTCTCCGAGCCGCCCTCCGCCAAGCCCCAGCG
CCCGCTCCCATCGCCGATGACCGCGGGGAGGAGGATGGAGATGCTCTGTGCCGGCAGGGTCCCTGCGCTGCTGCT
CTGCCCTGGGTTTCCATCTTCTACAGGCAGTCCTCAGTACAACCTGTGATTCCATCATGTATCCAGGAGAGTCCAG
TGATAACTGCACAGCTTTAGTTTCAGACAGAAGACAATCCACGTGTGGCTCAAGTGTCAATAACAAAGTGTAGCTC
TGACATGAATGGCTATTGTTTGCATGGACAGTGCATCTATCTGGTGGACATGAGTCAAACTACTGCAGGTGTGA
AGTGGGTTTATACTGGTGTCCGATGTGAACACTTCTTTTAAACCGTCCACCAACCTTTAAGCAAAGAGTATGTGGC
TTTGACCGTGATTCTTATTATTTTGTCTTATCACAGTCGTCGGTTCACATATTATTTCTGCAGATGGTACAG
AAATCGAAAAAGTAAAGAACCAAAGAAGGAATATGAGAGAGTTACCTCAGGGGATCCAGAGTTGCCGCAAGTCTG
AATGGCGCCATCAAACCTTATGGGCAGGGATAACAGTGTGCCCTGGTTAATATTAATATTCCATTTTATTAATAATA
TTTATGTTGGGTCAAGTGTTAGGTCAATAACACTGTATTTTAAATGTACTTGAAAAATGTTTTTATTTTTGTTTTA
TTTTTGACAGACTATTTGCTAATGTATAATGTGCAGAAAAATATTTAATATCAAAAGAAAATTGATATTTTTTATAC
AAGTAATTTCTGAGCTAAATGCTTCATTGAAAGCTTCAAAGTTTATATGCCTGGTGCACAGTGCCTTAGAAGTAA
GCAATTTCCAGGTCATAGCTCAAGAATTGTTAGCAAATGACAGATTTCTGTAAGCCTATATATATAGTCAAATCG
ATTTAGTAAGTATGTTTTTATGTTCTCAAATCAGTGATAATTGGTTTGACTGTACCATGGTTTGATATGTAGT
TGGCACCATGGTATCATATATTAAACAATAATGCAATTAGAATTGGGAGAAGCAAATATAGGTCTGTGTTAA
ACACTACACATTTGAAACAAGCTAACCTGGGGAGTCTATGGTCTCTTCACTCAGGTCTCAGCTATAATTCTGTT
ATATGAGGGGCAGTGGACAGTTCCCTATGCCAACTCACGACTCCTACAGGTACTAGTCACTCATCTACCAGATTC
TGCCTATGTAAAATGAATTGAAAAACAATTTTCTGTAATCTTTTATTTAAGTAGTGGGCATTTTCATAGCTTCACA
ATGTTCTTTTTTGTATATTACAACATTTATGTGAGGTAATTATTGCTCAACAGACAATTAGAAAAAGTCCACA
CTTGAAGCCTAAATTTGTGCTTTTTTAAGAATATTTTAGACTATTTCTTTTTATAGGGGCTTTGCTGAATTTCTAA
CATTAAATCACAGCCCAAATTTGATGGACTAATTATTATTTTAAATATATGAAGACAATAATTCTACATGTTG
TCTTAAGATGGAATACAGTTATTTTCATCTTTTATTCAAGGAAGTTTTAACTTTAATACAGCTCAGTAAATGGCT
TCTTCTAGAATGTAAAGTTATGTATTTAAAGTTGTATCTTGACACAGGAAATGGGAAAAAACTTAAAAATTAATA
TGGTGTATTTTTCCAAATGAAAAATCTCAATTGAAAGCTTTTAAATGTAGAACTTAAACACACCTTCTGTGG
AGGCTGAGATGAAACTAGGGCTCATTTTCTGACATTTGTTTATTTTTTGAAGAGACAAAGATTTCTTCTGCA
CTCTGAGCCCATAGGTCTCAGAGAGTTAATAGGAGTATTTTGGGCTATTGCATAAGGAGCCACTGCTGCCACCA
CTTTTGGATTTTATGGGAGGCTCCTTCATCGAATGCTAAACCTTTGAGTAGAGTCTCCCTGGATCACATACCAGG
TCAGGGAGGATCTGTTCTTCTCTACGTTTATCCTGGCATGTGCTAGGGTAAACGAAGGCATAATAAGCCATGGC
TGACCTCTGGAGCACCAGGTGCCAGGACTTGCTCCATGTGTATCCATGCATTATATACCCTGGTGCAATCACAC
GACTGTCACTAAAGTCTTGGCCCTGGCCCTTACTATTAGGAAAATAAACAGACAAAAACAAGTAAATATATATG
GTCCTATACATATTGTATATATATTCATATACAAACATGTATGTATACATGACCTTAATGGATCATAGAATTGCA
GTCATTTGGTGTCTGTCTAACCATTTATATAAACTTAAAAACAAGAGAAAAGAAAAATCAATTAGATCTAAACA
GTTATTTCTGTTTCTTATTTAATATAGCTGAAGTCAAAATATGTAAGAACACATTTTAAATACTCTACTTACAGT
TGGCCCTCTGTGGTTAGTTCCACATCTGTGGATTCAACCAACCAAGGACGAAAATGCTTAAAAAATAATACAAC
AACAACAAAAAATACATTATAACAACATTTTACTTTTTTTTTTTTTTTTTTCTTTTTGAGATGGAGTCTCGCTCTGTTGCC
CAGGTTGGAGTGCAGTGGCAGATCTCGGCTCACTGCAACCTCACCTCCCGGGTTCAAGAGATCCTCCTGCCTCA
GCCTCCTGAGCAGCTGGGACTACAGGCGCATGCCACCATGCCAGCTAATTTTTTGTATTTTATAGTAGAGGCGGGG
TTTCACCATGTTGGCCAGGATGGTCTCAATCTCCTAACCTTGAGATCCACCCTCCACAGCCTCCCAAACCTGCTGG
GATTACAGGCGTGAGCCACCGCACGTAGCATTTACATTAGGTATTACAAGTAATGTAAAGATGATTTAAGTATAC
AGGAGGATGTGAATAGGTTATATGCAAGCACTATGCCCTTTTATATAAGTGACTTGAACATCTGTGCCCGATTTT
AGTATGTGAGGGGGGCGATCTGGGAATCAGTCCCCGTGGGATACCAAGGTACAACCTGTATTTTATTAACGCTTAC
TAGATGTGAGGAGAGTCTGAATATTTTTCAGTGATCTTGGCTGTTTCAAAAAAATCTATTGACTTTTCAATAAATC
AGCTGCAATCCATTTATTTTCAATTACAAAAGATTTATTGTAAGCCTCTCAATCTTGGTTTTTTCAGTTGATCTTAA
GCATGTCAATTCATAAAAAACAAGTCATTTTGTATTTTTCATCTTTAAGAATGCTTAAAAAAGCTAATCCCTAAA
ATAGTTAGATCTTTGTAAATGCATATTAAATAATAAAGTATGACCCACATTACTTTTTATGGGTGAAAAATAAGAC
AAAAATAATAGTTTTAGTGAGGATGGTGTGAGTAAACATAAAAACTGATTTGCTCTCAGCTGATGTGTCCTGTA
CACAGTGGGAAGATTTTAGTTCACACTTAGTCTAACTCCCCCATTTTACAGATTTCTCACTATATATATTTCTAG

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FIGURE 571B

AAGGGGCTATGCATATTCAATGTATTGAGAACCAAAGCAACCACAAATGCATAAATGCATAATTTATGGTCTTCA
ACCAAGGCCACATAATAACCCAGTTAACTTACTCTTTAACCAGGAATATTAAGTTCTATACTAGTACTCAAGGT
TTAACCTTAAAATTAAGATTTCTTAACCTTAACCTTAAAATTGATATTATATTAACATACATAATACAATGTA
ACTCCACTGTTCTCCTGAATATTTTTTGCTCTAATCTCTCTGCCGAAAGTCAAAGTGATGGGAGAATTGGTATAC
TGGTATGACTACGTCTTAAGTCAGATTTTTATTTATGAGTCTTTGAGACTAAATTCAATCACCACCAGGTATCAA
ATCAACTTTTTATGCAGCAAATATATGATTCTAGTGTCTGACTTTTGTTAAATTCAGTAATGCAGTTTTTAAAAAC
CTGTATCTGACCCACTTTGTAATTTTTGCTCCAATATCCATTCTGTAGACTTTTGAAAAAAAAGTTTTTAATTTG
ATGCCCAATATATTCTGACCGTTAAAAAATTCTTGTTCATATGGGAGAAGGGGGAGTAATGACTTGTACAAACAG
TATTTCTGGTGTATATTTTAATGTTTTTAAAAAGAGTAATTTCAATTAATATCTGTTATTCAAATTTGATGATG
TTAAATGTAATATAATGTATTTCTTTTTATTTTGCACCTCTGTAATTGCACTTTTTAAGTTTGAAGAGCCATTTT
GGTAAACGGTTTTTTATTAAGATGCTATGGAACATAAAGTTGTATTGCATGCAATTTAAAGTAACTTATTTGACT
ATGAATATTATCGGATTACTGAATTGTATCAATTTGTTTGTGTTCAATATCAGCTTTGATAATTGTGTACCTTAA
GATATTGAAGGAGAAAAATAGATAATTTACAAGATATTATTAATTTTTATTATTTTTCTTGGAATTGAAAAAAA
TTGAAATAAATAAAAAATGCATTGAACATCTTGCATTCAAATCTTCACTGAC

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FIGURE 572

MTAGRRMEMLCAGRVPALLLCLGFHLLQAVLSTTVIPSCIPGESSDNCTALVQTEDNPRVAQVSITKCSSDMNGY
CLHGQCIYLVDMSONYCRCEVGYTGVRCEHFFLTVHQPLSKEYVALTVILIIILFLITVVGSTYYFCRWYRNRKSK
EPKKEYERVTSGDPELPQV

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FIGURE 573

CTATTGATCTGGACTCCTGGATAGGCAGCTGGACCAACGGACGGACGCCATGAGGGGCTCTGCTGCTCCTGGGGTT
CCTGCTGGTGAGCTTGGAGTCAACACTTTTCGATTCCACCTTGGGAAGCCCCCAAGGAGCATAAGTACAAAGCTGA
AGAGCACACAGTCGTTCTCACTGTACCGGGGAGCCCTGCCACTTCCCCCTTCCAGTACCACCGGCAGCTGTACCA
CAAATGTACCCACAAGGGCCGGCCAGGCCCTCAGCCCTGGTGTGCTACCACCCCCAACTTTGATCAGGACCAGCG
ATGGGGATACTGTTTGGAGCCCAAGAAAGTGAAAAGACCACTGCAGCAAACACAGCCCCCTGCCAGAAAGGAGGGAC
CTGTGTGAACATGCCAAGCGGCCCCCACTGTCTCTGTCCACAACACCTCACTGGAAACCACTGCCAGAAAGAGAA
GTGCTTTGAGCCTCAGCTTCTCCGGTTTTTCCACAAGAATGAGATATGGTATAGAAGTGAAGCAGCTGTGGC
CAGATGCCAGTGCAAGGGTCCTGATGCCCCACTGCCAGCGGCTGGCCAGCCAGGCCTGCCGCACCAACCCGTGCCT
CCATGGGGGTCTGCTGCCTAGAGGTGGAGGGCCACCGCCTGTGCCACTGCCCGGTGGGCTACACCGGACCCTTCTG
CGACGTGGACACCAAGGCAAGCTGCTATGATGGCCGCGGGCTCAGTACC CGCGCCTGGCCAGGACCAGCTCTC
GGGTGCGCCCTGTACGCCGTGGGCCTCGGAGGCCACCTACCGGAACGTGACTGCCGAGCAAGCGCGGAAGTGGGG
ACTGGGGCGGCCACGCCTTCTGCCGGAACCCGGACAACGACATCCGCCCCGTGGTGCTTCGTGCTGAACCGCGACCG
GCTGAGCTGGGAGTACTGCGACCTGGCACAGTGCCAGACCCCAACCCAGGCGGCGCCTCCGACCCCGGTGTCCCC
TAGGCTTCATGTCCCACTCATGCCCGCGCAGCCGGCACCGCCGAAGCCTCAGCCACGACCCGGACCCCGCCTCA
GTCCAGACCCCGGGAGCCTTGCCGGCGAAGCGGGAGCAGCCGCCTTCCCTGACCAGGAACGGCCCACTGAGCTG
CGGGCAGCGGCTCCGCAAGAGTCTGTCTTCGATGACCCGCGTCGTGGCGGGCTGGTGCGCTACGCGGGGCGCA
CCCCTACATCGCCGCGCTGTACTGGGGCCACAGTTTCTGCGCCGGCAGCCTCATCGCCCCCTGCTGGGTGCTGAC
GGCCGCTCACTGCCTGCAGGACCGGCCCGCACCCGAGGATCTGACGGTGGTGCTCGGCCAGGAACGCCGTAACCA
CAGCTGTGAGCCGTGCCAGACGTTGGCCGTGCGCTCCTACCGCTGCACGAGGCCTTCTCGCCCGTCAGCTACCA
GCACGACCTGGCTCTGTTGCGCCTTCAGGAGGATGCGGACGGCAGCTGCGCGCTCCTGTGCGCTTACGTTACGCC
GGTGTGCTTGCCAAGCGGCGCCGCGCACCCCTCCGAGACCACGCTCTGCCAGGTGGCCGGCTGGGGCCACCAAGTT
CGAGGGGGCGGAGGAATATGCCAGCTTCCCTGCAGGAGGCGCAGGTACCGTTCCCTCTCCCTGGAGCGCTGCTCAGC
CCCGGACGTGCACGGATCCTCCATCCTCCCCGGCATGCTCTGCGCAGGGTTCCCTCGAGGGCGGCACCGATGCGTG
CCAGGGTGATTCCGGAGGCGCGCTGGTGTGTGAGGACCAAGCTGCAGAGCGCCGGCTCACCTGCAAGGCATCAT
CAGCTGGGGATCGGGCTGTGGTGACCGCAACAAGCCAGGCGTCTACACCGATGTGGCCTACTACCTGGCCTGGAT
CCGGGAGCACACCGTTTCCTGATTGCTCAGGGACTCATCTTTCCCTCCTTGGTGATTCCGCAGTGAGAGAGTGGC
TGGGGCATGGAAGGCAAGATTGTGTCCATTCCCCCAGTGCGGCCAGCTCCGCGCCAGGATGGCGAGGAAGTCAA
TAAAGTGCTTTGAAAATGCTGAG

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FIGURE 574

MRALLLLGFLLVSLSTLSIPPWEAPKEHKYKAEHTVVLTVTGEPCHFQYHRQLYHKCTHKGRPGPQPWCAT
TPNFDQDQRWGYCLEPKKVKDHCSKHSPCQKGGTCVNMPSGPHCLCPQHLTGNHCQKEKCFEPQLLRFFHKNEIW
YRTEQAAVARCQCKGPDHQCRLASQACRTNPCLHGGRCLEVEGHRCHCPVGYTGPFCDVDTKASCYDGRGLSY
RGLARTTTLGAPCQPWASEATYRNVTAEQARNWGLGGHAFCRNPDNDIRPWCFVLNRDRLSWEYCDLAQCQTPTQ
AAPPTPVSPRLHVPLMPAQAPPKPQPTTRTPPQSQTPGALPAKREQPPSLTRNGPLSCGQRLRKSLSMTRVVG
GLVALRGAPYIAALYWGHSFCAGSLIAPCWVLTAHCLQDRPAPEDLTVVLGQERRNHSCEPCQTLAVRSYRLH
EAFSPVSYQHDLALLRLQEDADGSCALLSPYVQPVCLPSGAARPSETTLCQVAGWGHQFEGAEYASFLQEAQVP
FLSLERCSAPDVHGSSILPGMLCAGFLEGGTDACQGDSSGGPLVCEDQAAERRLTLOGIISWGS GCGDRNKPGVYT
DVAYYLA WIREHTVS

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FIGURE 575

TGCCAGCCCAAGTCGGAACCTGGATCACATCAGATCCTCTCGAGCTCCAGCAGGAGAGGCCCTTCCTCGCCTGGC
AGCCCCTGAGCGGCTCAGCAGGGCACCATGGCAAGATCCCTTCTCCTGCCCCTGAGATCTTACTGCTATCCTTA
GCCTTGAAAACCTGCAGGAGAAGAAGCCCAGGGTGACAAGATTATTGATGGCGCCCCATGTGCAAGAGGCTCCAC
CCATGGCAGGTGGCCCTGCTCAGTGGCAATCAGCTCCACTGCGGAGGCGTCTTGGTCAATGAGCGCTGGGTGCTC
ACTGCCGCCCCTGCAAGATGAATGAGTACACCGTGCACCTGGGCAGTGATACGCTGGGCGACAGGAGAGCTCAG
AGGATCAAGGCCTCGAAGTCATTCCGCCACCCCGCTACTCCACACAGACCCATGTTAATGACCTCATGCTCGTG
AAGCTCAATAGCCAGGCCAGGCTGTTCATCCATGGTGAAGAAAGTCAGGCTGCCCTCCCGCTGCGAACCCCTGGA
ACCACCTGTACTGTCTCCGGCTGGGGCACTACCACGAGCCAGATGTGACCTTTCCTCTGACCTCATGTGCGTG
GATGTCAAGCTCATCTCCCCCAGGACTGCACGAAGGTTTACAAGGACTTACTGGAAAATTCCATGCTGTGCGCT
GGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGACCGTTGGTGTGCAGAGGTACCTTGCAA
GGTCTGGTGTCTGGGGAACCTTTCCTTGCGGCCAACCCAATGACCCAGGAGTCTACACTCAAGTGTGCAAGTTC
ACCAAGTGGATAAATGACACCATGAAAAAGCATCGCTTAACGCCACACTGAGTTAATTAACTGTGTGCTTCCAACA
GAAAATGCACAGGAGTGAGGACGCCGATGACCTATGAAGTCAAATTTGACTTTACCTTTCCTCAAAGATATATTT
AAACCAACCTCATGCCCTGTTGATAAACCAATCAAATTGGTAAAGACCTAAAACCAAAACAAATAAAGAAACACA
AAACCCCTCAGTGCTGGAGAAGAGTCAGTGAGACCAGCACTCTCAAACACTGGAAGTGGACGTTTCGTACAGTCTTT
ACGGAAGACACTTGGTCAACGTACACCGAGACCCTTATTCACCACCTTTGACCCAGTAACTCTAATCTTAGGAAG
AACCTACTGAAACAAAAAAATCCAAAATGTAGAACAAGACTTGAATTTACCATGATATTATTTATCACAGAAAT
GAAGTGAAACCATCAAACATGTTCCAAAAGTACCAGATGGCTTAAATAATAGTCTGGCTTGGCACAACGATGTTT
TTTTCTTTGAGACAGAGTCTCTGTTGCTTGGGCTGCAATGCAGTGATGCAATCTTGGCTCACTGCAACCTCCGC
CTCCTGGGTTCAAGTGATTCTCGTGCTTCAGCCTCCCAAGTACCTGGGACTACAGGTGTGCACCACCACACCAGG
CTAATTTTTTGTGTATTTTTACTAGAGACAGGGTTTCACCATGTTGGCCAGCGTGGTCTTGAACGCCTGACCTCA
GATGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGGCCAGCCACAATGATA
TTACAAACCTATTAAAAATGATACTTAGACAGAATTGTGAGTATTATTCAAGAACATTTAGGCTATAGGATGTTA
AATGACAAAAGGAAGGACAAAAATATATATGTATGTGACCCTACCCATAAAAAATGAAATATTCACAGAATCAGA
TCTGAAAACACATGTCCCAGACTGCATACTGGGGTGCATGAGGTGTCTCCTTCCTTCTGTGTACTTTTCCTTG
AATGTGCACTTTTATAACATGAAAAATAAAGGTGGGGAAAAAAGTCTGAAGA

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FIGURE 576

MARSLLLPLQILLLSLALETAGEEAAQGDKIIDGAPCARGSHPWQVALLSGNQLHCGGVLVNERWVLTAAHCKMNE
YTVHLGSDTLGDRRAQRIKASKSFRHPGYSTQTHVNDLMLVKLNSQARLSSMVKKVRLPSRCEPPGTTCTVSGWG
TTTSPDVTFFPSDLMCVDVKLISPQDCTKVYKDLENSMLCAGIPDSKKNACNGDSGGPLVCRGTLQGLVSWGTFP
CGQPNDPGVYTQVCKFTKWINDTMKKHR

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FIGURE 577

TCAGGCCCCGCCCCGCCCTGCCCTCCCCTCCCGATCCCGGAGCC**ATGT**TGGCCCCCTGGCCCTAGTGATCGCCTCCCT
GACCTTGGCCTTGTCAGGAGGTGTCTCCAGGAGTCTTCCAAGTTCTCAACACCAATGGGACCAGTGGGTTTCT
CCCAGGTGGCTACACCTGCTTCCCCCACTCTCAGCCCTGGCAGGCTGCCCTACTAGTGCAAGGGCGGCTACTCTG
TGGGGGAGTCCTGGTCCACCCCAAATGGGTCTCTACTGCCGCACACTGTCTAAAGGAGGGGGCTCAAAGTTTACCT
AGGCAAGCACGCCCTAGGGCGTGTGGAAGCTGGTGAGCAGGTGAGGGAAGTTGTCCACTCTATCCCCACCCTGA
ATACCGGAGAAGCCCCACCCACCTGAACCACGACCATGACATCATGCTTCTGGAGCTGCAGTCCCCGGTCCAGCT
CACAGGCTACATCCAAACCCCTGCCCTTTCCACAACAACCGCCTAACCCCTGGCACCACCTGTGGGTGTCTGG
CTGGGGCACCACCACCAGCCCCAGGTGAATTACCCAAAACCTCTACAATGTGCCAACATCCAACCTTCGCTCAGA
TGAGGAGTGTCGTCAAGTCTACCCAGGAAAGATCACTGACAACATGTTGTGTGCCGGCACAAAAGAGGGTGGCAA
AGACTCCTGTGAGGGTGACTCTGGGGGCCCCCTGGTCTGTAACAGAACACTGTATGGCATCGTCTCCTGGGGAGA
CTTCCCATGTGGGCAACCTGACCGGCCTGGTGTCTACACCCGTGTCTCAAGATACGTCCTGTGGATCCGTGAAAC
AATCCGAAAATATGAAACCCAGCAGCAAAAATGGTTGAAGGGCCCA**ATAA**AGTTGAGAAATGTACCGGCTTC
CATCCTGTCACCATGACTTCCTCACATGGTCTGCTTAGCCCTTCTCTGCTCCTTATCCCAGTGTTCCATTGAA
CCAGTGATCCATGTCCTGAAAAATGCTCAATCTCAGCTAACATTCCATGTTTCAGAAGCATTACAGGCACTGCCAG
GCTTGCAGTCTCCAGATGTTGCATCCCTGAAACATCTCAACAACCTGAATGTCCCAACCCAGACAATGGCCCAG
GTCTCTCAACTTCATCAGTGTGGCTTCTATGAGCCCAGATCACCACTGAACGTTCTGTCTGTGGCACATTCTTA
AATATTCCATCAGCCCATCTCAACAATATATGTCTATAAATGGACCATCCTTGACA

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FIGURE 578

MWPLALVIASLTTLALSGGVVSQESSKVLNTNGTSGFLPGGYTCFPHSQPWQAALLVQGRLLCGGVLVHPKWVLTA
HCLKEGLKVYLGKHALGRVEAGEQVREVVSIPHPPEYRRSPTHLNHDHDI MLLELQSPVQLTGYYIQTLP LSHNNR
LTPGTTCRVSGWGTTTSPQVNYPKTLQCANIQLRSDEECRQVYPGKITDNMLCAGTKEGGKDSCEGDSGGPLVCN
RTLYGIVSWGDFPCGQPDPRPGVYTRVSRYVLWIRETIRKYETQQQKWLKGPQ

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FIGURE 579A

GAATTCCGATCTCTCGTCTCTTCTGCGCTAGGCCGCCCCAGGCGCGGCCCTGCGACTCTTGGCACGGCCCCG
TGCTCGGCTGCCGCCCTGGCGCGGCCACACTGTCGTCCCCGACGGGCGCGGACCGGCTCGGCCGGGGCGCCGG
CGGCTGGGGAGGGGTCGCTGGCCCCGGGGCCGCGCATGCGCCGCCACCAACTTGGGGCTGTCACTGGAGGGCGAG
TGCTGGTTCTCAGGGGAGGCGACGCCTTCGGGGCCACGGGCCTCGAGCCGAGGCAGCAGTGGGAACGACTCATCC
TTTTTCCAGCCCTGGGGCGTGGCTGGGGTTCGGGGTTCGGGGTTCGGGGCCGGTGGGGGCCCCGCCCGCTCTCCTGG
CCTGCCCCCTTCATGGGCGCGCATGATGGCGGCCCTGTACCCGAGCACGGACCTCTCGGGCGCCTCCTCCTCCTC
CCTGCCTTCTCTCCATCCTCTCTCGCCGAACGAGGTGATGGCGCTGAAGGATGTGCGGGAGGTGAAGGAGGA
GAATACGCTGAATGAGAAGCTTTTTCTGCTGGCGTGCAGACAAGGGTGACTATTATATGGTTAAAAAGATTTTGGGA
GGAAAAACAGTTCAGGTGACTTGAACATAAATTGCGTAGATGTGCTTGGGAGAAATGCTGTTACCATAACTATTGA
AAACGAAAACTTGGATATACTGCAGCTTCTTTTGGACTACGGTTGTCAGAACTAATGGAACGAATTCAGAATCC
TGAGTATTCAACAACATATGGATGTTGCACCTGTCAATTTAGCTGCTCATCGTAACAACATATGAAATCTTACAAT
GCTCTTAAAAACAGGATGTATCTCTACCCAAGCCCCATGCAGTTGGCTGTGAATGCACATTGTGTTCTGCAAAAAA
CAAAAAGGATAGCCTCCGGCATTCCAGGTTTCGTCCTTGATATATATCGATGTTTGGCCAGTCCAGCTCTAATAAT
GTTAACAGAGGAGGATCCAATTCTGAGAGCATTGAACTTAGTGCTGATTAAAAAGAACTAAGTCTTGTGGAGGT
GGAATTCAGGAATGATTATGAGGAAC TAGCCCGGCAATGTAAATGTTTGCTAAGGATTTACTTGCACAAGCCCCG
GAATTCCTCGTGAATTGGAAGTTATTCTAAACCATACGCTCTAGTGACGAGCCTCTTGACAAACGGGGATTATTAGA
AGAAAGAATGAATTTAAGTCGTCTAAACTTGTCTATCAAATATAACCAGAAAGAGTTTGTCTCCAGTCTAACTG
CCAGCAGTTCTTGAACACTGTTTGGTTTGGACAGATGTCGGGTTACCGACGCAAGCCCACCTGTAAGAAGATAAT
GACTGTTTTGACAGTAGGCATCTTTTGGCCAGTTTGTCTACTTTGTTATTTGATAGCTCCCAATCTCAGTTTGG
CAGAATCATTACACACCTTTTATGAAATTTATCATTATGGAGCATCATATTTACATTTCTGCTGTTGCTTAA
TCTATACTCTCTTGTTTACAATGAGGATAAGAAAAACACAATGGGGCCAGCCCTTGAAAGAATAGACTATCTTCT
TATTCTGTGGATTATTGGGATGATTGGTCAGACATTAAAAGACTCTGGTATGAAGGGTTGGAAGACTTTTTTAGA
AGAATCTCGTAATCAACTCAGTTTGTCTATGAATTCCTTTATTTGGCAACCTTTGCCCTCAAAAGTGGTTGCTCA
CAACAAGTTTCATGATTTTGTCTGATCGGAAGGATTGGGATGCATTCCATCCTACACTGGTGGCAGAAGGGCTTTT
TGCATTTGCAAAATGTTCTAAGTTATCTTCGTCCTTTTTTATGTATACAACCAGCTCTATCTTGGGTCCATTACA
GATTTCAATGGGACAGATGTTACAAGATTTTGGAAAATTTCTTGGGATGTTTCTTCTTGTGTTTTCTTTTCTTAC
AATTGGACTGACACAACCTGTATGATAAAGGATATACTTCAAAGGAGCAGAAGGACTGTGTAGGCATCTTCTGTGA
ACAGCAAAGCAATGATACCTTCCATTTCGTTTCATTGGCACCTGCTTTGCTTTGTTCTGGTATATTTTCTCCTTAGC
GCATGTGGCAATCTTTGTCTACAAGATTTAGCTATGGAGAAGAACTGCAGTCCCTTTGTGGGAGCTGTCAATTGTTGG
TACATACAATGTCTGGTGTGATTGTGCTTACCAAACCTGCTGGTGGCAATGCTTCATAAAAGCTTTTCACTTGAT
AGCAAATCATGAAGACAAAAGATGGAAGTTTGTCTCGAGCAAAATTTATGGCTTAGCTACTTTGATGACAAATGTAC
GTTACCTCCACCTTTCAACATCATTCCTCACCAAAGACTATCTGCTATATGATTAGTAGCCTCAGTAAGTGGAT
TTGCTCTCATACATCAAAAAGGCAAGGTCAAACGGCAAAACAGTTTAAAGGAATGGAGGAATTTGAAACAGAAGAG
AGATGAAAACATATCAAAAAGTGATGTGCTGCCTAGTGCATCGTTACTTGACTTCCATGAGACAGAAGATGCAAAG
TACAGATCAGGCAACTGTGGAAAATCTAAACGAACCTGCGCCAAGATCTGTCAAATTCGAAATGAAATAAGGGA
TTTACTTGGCTTTTCGGACTTCTAAATATGCTATGTTTTATCCAAGAAATTAACCATTTTCTAAATCATGGAGCGA
ATAATTTTCAATAACAGATCCAAAAGACTATATTGCATAACTTGCAATGAAATTAATGAGATATATATTGAAATA
AAGAATTATGTAAAXGCCATTCTTTAAATATTTATAGCATAAATATATGTTATGTAAAGTGTGTATATAGAATT
AGTTTTTTTAAAXCCTTCTGTTAGTGGCTTTTTCAGAAAGCXAACAGATTAAGTAGATAGATTTTGTGATGCTGCT
GCTTGGTTTTTCTTACTTAGTGCTTTTAAATGTTTTTTTTTATGTTTAAAGAGGGGCAGTTATAAATGGACACATTG
CCCAGAATXTTTTGTAAATGAAGACCAGCAAATGTAGGCTGATCTCCTTCACAGGATACACTTGAAATATAGAA
GTTATGTTTTTAAATATCTCTGTTTTAGGAGTTCACATATAGTTTACGATTTATTGTTTAGGAGTATAATTTTATT
TTATCTAAAATAATAGTCTATTTTTCTTTTGTATTTTGTATAATCTTAAGCAACAAAGAAAAACCCTAATAT
TTGAATCTATTTATGCTTTCAATTTAAATTCACCTTCACTTTTGTATTGTAATATATTTACTTTTACATGGTT
ATAATCACTTTATATTTTAAATGTTTTTCACTTAATATTTTATATATACATTTCCATGTATTGATGTAGTTAG
TCCACATTTAAATTTTATAGAATTATATAGTTTTTGA AAAATACAGTCAGTAGATGTTTTATTTTTTAGCTATT
CAGTTATGTTTTATAAGTTTGCATAGCTACTTCTCGACATTTGGTTTGTGTTTTAATTTTTTTGTATCATAATAGTCC
TATTTTTTTTTTCAAGTTGGAGTGAATGTTTTTAGTTTTAAGATAGATAGGAGACACTTTTTTATCACATGTAGTC

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FIGURE 579B

AC¹AACTGTTTTGTTTTGTAA¹ACATAGGAAGTCTCTTTAATGCAATGATTTGTTTTATATTTGGACTAAGGTT
CTTGAGCTTATCTCCCAAGGTACTTTCCATAATTTAACACAGCTTCTATAAAAGTGACTTCATGCTTACTTGTGG
ATCATTCTTGCTGCTTAAGATGAAAAGCATTGGTTTTTTAAAATTAGAGAATAAAATATGTATTTAAATTTTTGG
TGTGTTTCACATAAAGXGATGTAGCTAAAATGTTTTCATAGGCTATTATATATXCTCGCAGCATTTCAGTTAAGA
GGATATTAGGTATATAATTCTCTTCTTAACCGAATGTCAGATGGTCTTACGCCACAGGGTGCAGGTAACCCTTGG
CCTGTAAGCACCACCGATCCAGGGATCATTGTCTAAATAGGTTACTATTGTTTGTTCATCTGGAATTCCGAGGG
TGCACAAATTACCAGCAGCCTGAGGGAGGTCTTATTGGAAGGCTTCCTGCAGGAGGTGGCATCTGATCCGGGCT
AGACATGGGAGTTGGAATTTTCCAGACAGGGAAGGGCACTGTGGGTGGA¹ACAAAGCACGAACAAACGTATGGT
GTGGGACCAAGCCTCACATGGTGCATAAATGATCAGAGGTGAGGCTGAAGCCTAGGTGTGTGTCAGGGGAAGAGC
TAGAAAGGAAGGTGGGGCAGGGAAGCTCAGTGAGTGTCTGCTACATGTGAGGCTTCATTCTGAGCACCAACTCTG
CGCGTAATGCCACGAAGTGGAGTCATGATTCTTCCATTTTCCAGGTGAAGAAACAAAGCACGGGGAGAATTAG
CTTGTC¹CAAGGGCTCATGGCCAGTCGGTGGTGCCACTGGGATTTAACAGGGATTCCAGCTGTGGAAGCTGCATG
CTGCCAGCTGAGCACTCCGTCTGTCCACCCTGGCAAATGACATGCTGAGGGCTGGGGGCAGTCATCTTTCCAGCA
GTTGTGCGACCAGAAATAATGATAATGCATCAGCCAGGTGGGCAAGAACTCAGACTTTGTGGTCAGACCTCGCTGT
GGCAGGGAGCTTAGAAAAGTCAC¹TTTTCTCCACAGCTGTGTAACATGGGGAAAGGGGGATGCTCAGCTCACCTC
TCATGGCCCTTGTGTGGGGATTTCAAGGGTAAATGCTGGAAAGCACTGAATATACAGCACTTAGTAGAGGCTTT
GCAAGCGGCTGTCTCACCCAAACGGATCCTTCCCCAGGAAAGCTCTGCAAATGGAGCCACTTGGCTTTTTGCCT
GATGCCATATTCCGTTGTTTAA¹ACGGCGATCCCAA¹ACTTAAGAGTATGAAAGGGGTGTTTTGCAGACAATGCAT
AATTAACCACTTCTAAACACAGGGTGTGCCAGGCTCCCTCAAAGCTGTTAATTATTCTTCATTAGTGATCTTAAG
TTAATGTAAATAATCCTGGAGCTCTGCCAGAGGCTCGGGCAGGGGAAGGAGCAGAGCCGCTTATTTCAACTAGC
AAACGGAAAGAAATCTTCACGGGGCGCCTCTGCGTTCTGCCTTGGTTGTGGGGAGATGCCTCTATAGACTCTTTA
GCTCTGCCCAAAGGCCATTGTGGGAGGCGGCAAGCCCTCTCCAAGTTCCAGAGCCCAGCCGACCTCAGGGTAC
TTTGGTTAATGAAATAGTT¹CAGGTGGGAAGAA¹AATATGGAGGAGAGTAGTATACCCATCGCCCAGCTTCCAAAT
AAGCTGTTAATGGTGTGGTGGACTGCCCTGTGGGCCACCCACAAATCTTATCCCTTTCTGCTTCCCCAGAGC
TAAGCCTAAACAGTCCCTCTTGT¹TGGTGTGTAGATTTCCCATGCACATTTTTTTAAATTGCTGTAGGTACATAG
TAAGTGTATATATTTATGGGGTACGTGAGATGTTTTGACACAGGCACGCAATGTGAAATACACACTTCATGGAGA
ATTC

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FIGURE 580

MMAALYPSTDLSGASSSSLPSSPSSSSPNEVMALKDVREVKEENTLNEKLFLLACDKGDYYMVKKILEENSSGDL
NINCVDVLGRNAVTTITIENENLDILQLLLDYGCQKLMERIQNPEYSTTMDVAPVILAAHRNNYEILTMLLKQDVS
LPKPHAVGCECTLCSAKNKKDSLRSRFRLDIYRCLASPALIMLTEEDPILRAFELSADLKELSLVEVEFRNDYE
ELARQCKMFAKDLLAQARNSRELEVILNHTSSDEPLDKRGLLEERMNLSRLKLAIKYNQKEFVSQSNCQQFLNTV
WFGQMSGYRRKPTCKKIMTVLTVGIFWPVLSLCYLIAPKSQFGRIIHTPFMKFIIHGASYFTFLLLLNLVSLVYN
EDKKNTMGPALERIDYLLILWIIIGMIWSDIKRLWYEGLEDPLEESRNQLSFVMNSLYLATFALKVVAHNKFDFA
DRKDWD AFHPTLVAEGLFAFANVLSYLRLEFFMYTTSSILGPLQISMGMQLQDFGKFLGMFLLVLF SFTIGLTQLY
DKGYTSKEQKDCVGIFCEQQSNDTFHSFIGTCFALFWYIFSLAHVAIFVTRFSYGEELQSFVGAVIVGTYNVVVV
IVLTKLLVAMLHKSFQLIANHEDKEWKFARAKLWLSYFDDKCTLPPPFNIIPSPKTICYMISSLSKWICSHTSKG
KVQRQNSLKEWRNLKQKR DENYQKVMCCLVHRYLTSMRQKMQSTDQATVENLNELRQDLSKFRNEIRDLLGFRS
KYAMFYPRN

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FIGURE 581

CATTGGACTTCAGCATGACTACTCAGTTGCCAGCTTACGTGGCAATTTTGCTTTTCTATGTCTCAAGAGCCAGCT
GCCAGGACACTTTTCATTGCAGCTGTTTATGAGCATGCAGCGATATTGCCCAATGCCACCCTAACACCAGTGTCTC
GTGAGGAGGCTTTGGCATTAAATGAATCGGAATCTGGACATTTTGGGAAGGAGCGATCACATCAGCAGCAGATCAGG
GTGCGCATATTATTGTGACTCCAGAAGATGCTATTTATGGCTGGAACTTCAACAGGGACTCTCTCTACCCATATT
TGGAGGACATCCCAGACCCTGAAGTAACTGGATCCCCTGTAATAATCGTAACAGATTTGGCCAGACCCCAGTAC
AAGAAAAGACTCAGCTGCCTGGCCAAGAACAACCTCTATCTATGTTGTGGCAAATATTGGGGACAAGAAGCCATGCG
ATACCAGTGATCCTCAGTGTCCCCCTGATGGCCGTTACCAATACAACACTGATGTGGTATTTGATTCTCAAGGAA
AACTGGTGGCAGCTACCATAAGCAAAACCTTTTTCATGGGTGAAAAATCAATTCAATGTACCCAAGGAGCCTGAGA
TTGTGACTTTCAATACCACCTTTTGGGAAGTTTTGGCATTTCACATGCTTTGATATACTCTTCCATGATCCTGCTG
TTACCTTGGTGAAAGATTTCCACGTGGACACCATAGTATTCCCAACAGCTTGGATGAATGTTTTGCCACATTTGT
CAGCTGTTGAATTCACCTCAGCTTGGGCTATGGGCATGAGGGTCAATTTCTTGCATCCAACATACATTACCCCT
CAAGAAAAATGACAGGAAGTGGCATCTATGCACCCAATTCTTCAAGAGCATTTCATTATGATATGAAGACAGAAG
AGGGAAAACTCCTCCTCTCGCAACTGGATTCCCACCCATCCCATCTGCAGTGGTGAAGTGGACTTCTATGCCA
GCAGTATAGAAGCGCTCTCATCAGGAAACAAGGAATTTAAAGGCAGTGTCTTTTTCGATGAATTCACTTTTGTGA
AGCTCACAGGAGTTGCAGGAAATTATACAGTTTGTGAGAAAGATCTCTGCTGTCTTTAAGCTACAAAATGTCTG
AGAACATACCAAATGAAGTGTACGCTCTAGGGGCATTTGACGGACTGCACACTGTGGAAGGGCGCTATTATCTAC
AGATTTGTACCCTGTTGAAATGTAAAACGACTAATTTAAACACTTGCCTGACTCAGCTGAAACAGCTTCTACCA
GGTTGAAATGTTCTCCCTCAGTGGCAGTTTCGGAACCCAGTATGTCTTCTGAGGTGTTGCTGAGTGAAAATC
AGCTTGACCTGGAGAATTTAGGTGTCAACTGACGGACGCTTGTTTAGTCTGAAGCCAACATCCGGACCTGTCT
TAACAGTAACTCTGTTTGGGAGGTTGTATGAGAAGGACTGGGCATCAATGCTTCATCAGGCCTCACAGCACAAG
CAAGAATAATAATGCTAATAGTTATAGCACCTATTGTATGCTCATTAAGTTGGTTAGAAATATTGACTTTTTCTCTT
TTTTATTGGGATAATTTAAAAAATGATGGATGAGAAAAGAAAGATTGGTCCGGGTTAATATTATCCTCTAGTAT
AAGTGAATTACTAGTTTCTCTTTATTTAGACAAACACACACACCAGATAATATAAACTTAATAAATTATCTGT
TAATGTAGATTTTATTTAAAAAATATATTTGAACATTGGTCTTTCTTGGACGTGAGCTAATTATATCAAATAAG
TATCACAAATCTTTTACGCAGAAGAAATAAAAACTACGGGTAGAAAACATAAGAACTATCATAAAATTTACTTAC
AAGGAGGCTGCTCTTGTTACCACTTTTATTATATTACGTATCACTTATTCAGCTCTGCTGAAAATTTCCAATGAC
TTTGTGTTGTTGCTCTTTTAGTTTTTTTACCTAAACAATACATTTTGATTCTCTTGTTGGGTTGATAATGTCTCCCC
AAAAATTTACATGTTGAAGCACCTCAGAATGTGACTGTATTTGGAGACAGGGTCTTTAAAGAGGTAAATAAGGTC
ATTAGGATAGACCCTAATTCAATATGACTGATGATCATAAAAGAGAGGCGAGTAGGGCACAAACAGGCACAAAGG
GAGACCATAAGGAGACACAGAGGAAGGACAACCTCTTTACAAGCTAAGAAAGAGAGGGCCTCAGAAGAAACCAACCC
TGCCAAACACCTTGATCTTGGACTTCCAGCCTCCAAAACCTATGAGAAAATAAATTTCTATTGTTTAAAGTCACCCAGT
CCATGGTACTTTGTTAGGCAGCCCTGGCAAATGAATCAAAGACCCATTCCCTGTTCCCTCTCCCCACCACTACTGTT
TTCTACTGTAATCTGAAGCTTCAACAAAAGGCTTACCTGGTAAGAATATTCAGCTGGTCTGGGTCTCTCAAGACTC
CAATAGACACTCTTAAAGAAGGATTGCTGATGGATTGATAGTGAAACCATTAGATCATTGAATTCCTCTGGAATT
AGAAAACCAGAGAGTCCCATTTTAAAGAAATTAGATATTTAATATAGCATTGTGTGTTCTATTTTAGTAACAGCAG
AATCTCTTGACATTACACAACCTCAGTGAAACAACATCATTTAAGCCAAAATATCTCCCAACTGACTGATAGACTC
TGAGCACTAATATCATAGTGCTGTGATGATGGACAATTACATAGTACCGATAACAGCCATGCACTGTGCAAGCA
TGCCCTTCTGCACAGGAGAGCAAGGCAGTTGCAGTAGTGATCTATGCCAGCAAAACATCATTTTGAGACAAACAT
TTTTGTGGCAGATGTTTTTCTAAAAAGTACTATATCATCCAAGAAATATTTGAGTAAATCCCTTGTTCTTTTG
GGTGACATTAAGTACATTTGCTTTTTTTTCAAGACCTAATAGAAAATAAGAAAGCCATAATGTATTTAGAAACA
GGAATCCTCAGAGCAATTCTCTGTATTCTCATATAATTTCAATGTAAACAGAAAACATATTGATGTGTTGGTGA
TAGGCTTGAATTATTAAAAACTTCAAAAACAAAA

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FIGURE 582

MTTQLPAYVAILLFYVSRASCQDTFIAAVYEHAAILPNATLTPVSREEALALMNRNLDILEGAITSAADQGAHI I
VTPEDAIYGWNFNDRDSLYPELEDIPDPEVNWIPCNRRNRFGQTPVQERLSCLAKNNSIYVVANIGDKKPCDTS DP
QCPPDGRIYQYNTDVVFD SQGKLVARYHKQNLFMGENQFNVPKEPEIVTFNTTFGSFGIFTCTFDILFHDPAVTLVK
DFHVDTIVFPTAWMNVLPHLSAVEFHSAWAMGMRVNFLASNIHYP SKKMTGSGIYAPNSSRAFH YDMKTEEGKLL
LSQLDSHP SHSAVVNWTSYASSIEALSSGNKEFKGTVFFDEFTFVKLTGVAGNYTVCQKDL CCHLSYKMS ENIPN
EVYALGAFDGLHTVEGRYYLQICTLLKCKTTNLNTCGDSAETA STRFEMFSLSGTFGTQYVFPEVLLSENQLAPG
EFQVSTDGRLFS LKPTSGPVLT VTLFGRLYEKD WASNASSGLTAQARIIMLIVIAPIVCSLSW

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FIGURE 583

[illegible]

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FIGURE 584

MVVS GARPALGGGCLGTFTSLLLLASTAILNAARIPVFPACGKPQQLNRVVGGEDSTDSEWPWIVSIQKNGTHHC
AGSLLTSRWVITAAHCFKDNLNKPYLEFSVLLGAWQLGNPGSRSQKVGVAWVEPHPVYSWKEGACADIALVRLERS
IQFSERVLPICLPDASIHLPNTHCWISGWGSIQDGVPLPHPQTLQKLKVP IIDSEVCSHLYWRGAGQGPIITEDM
LCAGYLEGERDACLGDSGGPLMCQVDGAWLLAGIISWGEGCAERNRPGVYISLSAHRSWVEKIVQGVQLRGRAQG
GGALRAPSQSGAAARS

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FIGURE 585

ACCACTGCTGGCTTTTTGCTGTAGCTCCACATTCCTGTGCATTGAGGGGTAAACATTAGGCTGGGAAGATGACAA
AACTTGAAGAGCATCTGGAGGGAATTGTCAATATCTTCCACCAATACTCAGTTCGGAAGGGGCATTTTGACACCC
TCTCTAAGGGTGAGCTGAAGCAGCTGCTTACAAAGGAGCTTGCAAACACCATCAAGAATATCAAAGATAAAGCTG
TCATTGATGAAATATTCCAAGGCCTGGATGCTAATCAAGATGAACAGGTCGACTTTCAAGAATTCATATCCCTGG
TAGCCATTGCGCTGAAGGCTGCCCATTACCACACCCACAAAGAGTAGGCTAGCTCTCTGAAGGCTTTTTACCCAGC
AATGTCCTCAATGAGGGTCTTTTCTTCCCTCACCAAACCCAGCCTTGCCCGTGGGGAGTAAGAGTTAATAAAC
ACACTCACGAAAAGTT

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FIGURE 586

MTKLEEHLEGIVNIFHQYSVRKGFDTLSKGELKQLLTKELANTIKNIKDKAVIDEIFQGLDANQDEQVDFQEFI
SLVAIALKAAHYHKE

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FIGURE 587

GTCCAAACACACACATCTCACTCATCCTTCTACTCGTGACGCTTCCCAGCTCTGGCTTTTTGAAAGCAAAGATGA
GCAACACTCAAGCTGAGAGGTCCATAATAGGCATGATCGACATGTTTCACAAATACACCAGACGTGATGACAAGA
TTGACAAGCCAAGCCTGCTGACGATGATGAAGGAGAACTTCCCCAACTTCCTTAGTGCCTGTGACAAAAAGGGCA
CAAATTACCTCGCCGACGTCTTTGAGAAAAAGGACAAGAATGAGGATAAGAAGATTGATTTTTCTGAGTTTCTGT
CCTTGCTGGGAGACATAGCCACAGACTACCACAAGCAGAGCCATGGAGCAGCGCCCTGTTCCGGGGGCAGCCAGT
GACCCAGCCCCACCAATGGGCCTCCAGAGACCCAGGAACAATAAAATGTCTTCTCCCACCAG

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FIGURE 588

MSNTQAERSIIGMIDMFHKYTRDDKIDKPSLLTMMKENFPNFLSACDKKGTNYLADVFEKKDKNEDKKIDFSEF
LSLLGDIATDYHKQSHGAAPCSGGSQ

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FIGURE 589A

AGCGC¹ATGGAGCCAGAGGAGGAGGATGAACTAGGCTCAGGGCGGGATGTGGATTCCA²ACTCCAACGCGGACAGTG
AGAAATGGGTGGCAGGAGATGGTTTGGGAAGAACAGGAATTTTCTATCAAGGAGGC³AAACTTCACAGAGGGAAGTC
TGAAGCTAAA⁴GATTTCAGACCACAAAGCGGGCTAAGAAACCCCCAAAGAATTTGGAGA⁵ACTATATATGTCCACCTG
AGATCAAGATCACCATCAAGCAGTCTGGGGACCAGAAGGTGTCCCGTGCTGGAAAAAATAGCAAAGCCACGAAGG
AGGAAGAAAGAGCCACTCCAAAAAGAAGCTCCTCACAGCCAGTGACCTTGCAGCCAGTGACCTCAAAGGATTTTC
AGCCACAGGCTTACGAAAGGCCCCAGAAACATTCAACTCTCCATTATGACACGGGCCTCCACAGGACTTCACCG
GTGACACCTTAAAACCAAAGCACCAGCAAAAAAGCAGCAGCCAGAACCACATGGACTGGTCCACCAACTCTGACA
GCGGACCCGTC⁶ACTCAGAATTGCTTCATCAGTCCAGAGTCTGGCAGAGAAACTGCAAGCACCAGCAAGATCCCCG
CTCTTGAGCCCGTGGCTTCCCTTTGCAAAGGCCCAGGGTAAGAAAGGCAGTGCAGGGAACACGTGGAGTCAGTTGT
CTAACAATAACAAAGATCTGCTCTTGGGAGGTGTGGCTCCATCCCCAAGCAGCCACAGCTACCAGCCCCACCCA
GCAGCTCTGCTGAGTGCAACGGGCTTCAGCCCTTGGTGGATCAAGATGGAGGAGGTACAAAGGAGCCCCCAGAAC
CACCTACGGTGGGCAGCAAGAAAAAGTCCAGTAAAAAAGATGTGATAAGTCAGACCATACCAAACCCAGACCTGG
ATTGGGTCAAGAATGCCCAGAAAGCATTTGACAATACAGAAGGGAAAAGGGAAGGTTATTCCGCAGATAGTGCCC
AAGAGGCATCACCAGCCAGGCAGAACGTGAGTTCCTGCCAGTAATCCTGAAAATGACTCAAGTCATGTCCGGATTA
CTATCCCCATCAAGGCACCCCTCTCTGGATCCAACCAACCATAAGAGGAAAAAAGACAGTCCATTAAAGCGGTGG
TGAAAAAGATCATGCCAGAGAAAGCCTTGGCTTCTGGAATCACCATGAGCAGTGAAGTAGTTAACAGGATACTTT
CCA⁷ACTCTGAGGGGAATAAGAAGGATCCCCGTGTCCCTAAGTTGAGTAAATGATAGAGAATGAGTCCCCCTCAG
TTGGCCTTGAACTGGTGGAAATGCTGAGAAAGTTATCCAGGAGGTGTGTCTAAGCCGCGGAAGCCACCCATGG
TCATGACACCTCCAACGTGCACAGATCACTCTCCATCCAGAAAGCTGCCAGAAATCCAGCATCCAAATTTGCTG
CAAAACGAAGGTGGACTTGCAGCAAAACCAAACCTAGCACCATGCTTCGAGAGGCAGTTATGGCCACCTCTGATA
AACTGATGCTGGAGCCCCCGTCTGCATATCCCATCACCCCATCCAGCCCTCTCTACACCAACACAGACAGTCTTA
CTGTGATCACTCCAGTCAAAAAGAAGCGGGGACGACCAAGAAGCAGCCTTTGCTCACAGTCGAGACGATTTCATG
AGGGA⁸ACTTCCACCAGCCCCGTGAGTCCCATCAGCCGAGAGTTTCTTGGCACTAAGAAAAGAAAGCGACGACGCA
ATTTAGCGAAGTTGGCCAGCTAGTGCCGGGAGAGGACAAACCCATGAGCGAGATGAAATTTACAAGAAAGTTG
GAAAGCTCGGCGTGTTGGATAAGAAGACCATCAAACTATCAATAAGATGAAGACACTCAAGAGGAAAAACATCT
TGAATCAGATCTTGCTCTGTTCCAGCAGCGTTGCTCTGAAGGC⁹AAAAGCTCCCCCAGAGACCAGCCCTGGGGCAG
CAGCCATTGAAAGCAA¹⁰ACTGGGCAAGCAGATTAATGTGAGCAAGAGGGGAACCATCTACATTGGCAAGAAGCGGG
GCAGGAAGCCAAGAGCAGAGCTGCCACCCCCATCCGAAGAACCCAAAACAGCCATCAAGCACCCAGGCCCTGTTT
CTAGCCAGCCGGATGTTCCAGCCGTGCCCTTCCA¹¹ACTTTTCAGTCACTTGTGGCGTCTTACACAGCAGCTATGCACC
CACTTTTCAACACAGTTAGGTGGGTCCAATGGCAACCTGAGCCCTGCCAGCACTGAAACCAATTTTTCAGAGTTGA
AAACTATGCCAAATCTCCAGCCCCATCAGTGTCTTCCAACCAAACCCAAAAGGGAATACACAGTGGAACCTGGA
AGCTGTCTCCACCCAGACTGATGGCCA¹²ACTCCCCTTCACACCTGTGCGAGATTGGCTCCCTAAAGGAAATCACGC
TGTCCCCTGTGAGCGAGTCCCACAGTGAGGAGACGATCCCCAGCGACAGCGGCATTGGGACAGACAACAACAGCA
CTTCTGACCAAGCGGAGAAGAGCTCAGAATCCCGAAGGAGGTACTCTTTTGATTTCTGCTCCCTGGACAACCCGG
AGGCCATTCCGTCCGACACCAGCACAAAGAACCGGCATGGCCACCGGCAAAGCATCTCATTGTGGACAAC¹³TTTC
TGGCCACGAAAGCCTCAAGAAGCCAAAGCACAAAGAGGAAACGGAAAGCCTGCAAAACCGCGATGACCTCCAGT
TTCTGGCAGACCTGGAGGAGCTAATCACCAAGTTCCAAGTGTTGAGAATCTCCCACCGGAGTTACACCTTCTACC
ACGAGAATCCATATCCCAGCATTTTTCGGATTAATTTTGATCACTATTACCCGGTGCCATATATCCAGTATGACC
CGTTGCTCTATCTTCGTAGGACTTCAGACTTGAAGTCAAAGAAGAAGCGTGGTAGGCCTGCAAAAACCAATGACA
CCATGACAAAGGTGCCTTTT¹⁴TACAAGGGTTCAGCTACCCTATTCCAGTGGAAGTTACTATGCACCTATGGAA
TGCCTTACACATCAATGCCTATGATGAACCTTGGTTATTACGGTCAGTACCCAGCTCCTTTGTACCTATCGCACA
CGCTTGGAGCAGCTTCCCCATT¹⁵CATGAGGCCAACAGTGCCACCACCTCAGTTCCACACAAACTCC¹⁶CACATAAAGA
TGTCCGGTGCAGCTAAGCATAAAGCCAAGCATGGAGTACACCTGCAGGGACCTGTTAGCATGGGCTTGGTGACA
TGCAGCCTTCTCTGAACCTCCCAAGGTAGGCAGTGCCAGTCTGTCCAGTGGTGGCTCCATAAGAGGAAACACA
AACACAAGCATAAGCACAAGGAAGACCGGATCCTAGGGACCCATGACAACCTGAGTGGTCTTTTTCAGGCAAAG
CCACAGGCTTCTCCAGCCACATCCTGAGCGAGCGGCTGAGTAGCGCAGACAAAGAGCTCCCGCTGGTGAGTGAGA
AGAACAAGCATAAGGAGAAACAGAAGCACCAGCACAGCGAAGCCGGCCACAAAGCTTCTAAGAA¹⁷CAACTTTGAGG
TGGACACCTGTCTACACTGTCACTTTCCGACGCCCAGCATTGGACACAGGCCAAGGAAAAAGGAGACTTGAGCA

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FIGURE 589B

GTGAGCCTGTGGACTCAATGCACGAAAAGATACTCTGGCAGTGGCGGGGATGGTGGCAGCACGAGATCGGAGAACC
TGGACGTGTTTCAGTGAAATGAACCCCTTCGAATGACAAGTGGGACAGTGACGTGAGTGGGAGTAAAAGGAGGAGCT
ATGAAGGCTTTTGGAACTACAGGGAAAAGGACATCCAAGCCCTTCAAGATGAACCGCAAGGAGAGAAGTTCTTATG
ACTCCTCCATGTCTCCAGGGATGCCAAGTCCCCACTTAAAAAGTGGACCAGACAGCAGTGCATAGTAAGAACGAAG
GCTCAGTGGCCACCATGATGACCAGGAAGAAGCCAGCCGCGAGTTGACAGTGTACAAATTCACCAGCCCCAGTGT
TATCTCTCCTTGCTGCATCTGCAGCAACGTCGGATGCAGTCGGCTCCTCCCTGAAGAAGAGGTTCAAGCGGCGGG
AGATCGAAGCCATCCAGTGCGAAGTGCAGGAAGATGTGCAACTACACCAAGATCCTGTCCACCAAGAAGAACCTGG
ACCACGTGAACAAGATCCTGAAGGCCAAGCGGCTGCAGAGACAATCAAAAACAGGCAACAACCTTCGTGAAGAAGA
GGCGCGGGCGTCCAGGAAGCAGCCACCCAGTTTCGATGAGGACTCCAGAGACCAAATGCCGGTGCTGGAAAAAT
GCATCGACCTGCCCAGCAAAAGAGGCCAGAAGCCCAGCCTGAGCCCGCTGGTGCTGGAGCCCGCCGCGCCAGCCAAG
ACACCATCATGGCCACCATCGAGGCGGTTCATCCACATGGCCCGGGAGGCGCCGCCCTGCCCGCCGCGCCAGCCGC
CGCCCCTGCCGCCACCGCCGCCACACCCCTGCCCGCCGCCACCCCTCTACCCAAGACCCCCGAGGCGGAAAGA
GGAAACACAAACCGCAGGCCCCCGCTCAGCCCCCAGCAGTCCGCCCGCAGCAGCCCCCTCCCCAGGAAGAGG
AGGTGAAAGCCAAAAGGCAGAGGAAGTCCCGAGGGAGTGAGAGCGAGGTCCTTCCCTTAGGGCGGGTCTGGGCGTC
TGCACCTGGGGCCTAGGGAAGTACACGTGGGAAGCGCAGTGAGCCGGGGCGGGGGCGGAATCCCCCGCTGCAGG
GACACCCACGCCCTTCTCTCCAGAAGCCGGGCAGGCAGAATCCGGCCAGACGACGGGGCTGAGCCATCAGGAGCT
CTTGGGAAAGCAAAGCAGGGAGACACCTTCAGAAGAAGCTTGCTGAGCTTACCGCAGCTCCCACCACGCGGCG
CTTCAGTACGGCTGGATCCTCCGAGGCGAGCGGAAGGCCCCCAGGAGGAGCAGGCTGGTGGCACTCTCCTGACC
TCACGCTGCCAAGGTGCGCCCTCGACTCCCGATTTCAATTTGCTGGCCAGGAAAATCGAAAGGGAAACACCCCTCAA
TTAGGAAACATTCCAAGGGGAGAAAAGCTGCAAAATTGCTCAACTGGCATTGCTGTAAACCGTTCCATTTAATTGG
TTTTTATTTCTTTTGATTTTCAAGCTCTGCTAAGCTTTGGGGTACCAACGTCATCTTCAGGTGACCTGAATCTTT
CCCTTAACCGTACAGTTTCTCGATGGAATTGTGTGATCAGAAGGTGGAATTCTAGTGATAGGCGACCTCAGACCC
GCATTCATGTTCTGTGTGCTCTTCTATTGCACATACACTGATTTTTAGCATTGTCTATTCTATTTTTCTTTG
CCCATTGTACTTCCATATATCTTTTCATTAACTTACTTGCTGCCTTTTTTTTTTTCTTGGTACACATTTAAATAAA
GTAATCCTTAACCTGTGCTGTAAAGTTCACCCCTTGGCATGCTGTTCCAAGAACCTGGGTTTGAATCCCAATCGTT
GTGAAACATACTCAGTATTGATAAAACCTTTTTTAATAAGTGATGCAGAGCAGCCAAGGATATGTTGACCCAGATG
TCAACCAGGCTATTTTTATACTTAAAAACATGTCAGCAGAGCATAGGCAGAATAAAATGGTTTTAAATACCCACAG
CAAATAGAGTAACTGACAAACCAAAAACTGAAACCCAGACCCACCAGAAAGACAAGTGCTAGCAATGCCT
TGGTACCTGATCTTTTTTCATTCAAATAATTGTCTAGGTTGTTT

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FIGURE 590

MEPEEEDELGSGRDVDSNSNADSEKWVAGDGLLEEQEF SIK EANFTEGSLKLKIQTTKRAKKPPKNLENYICPPEI
KITIKQSGDQKVS RAGKNSKATKEEERSHSHKKLLTASDLAASDLKGFQPQAYERPQKHSTLHYDTGLPQDFTGD
TLKPKHQKSSSQNHMDWSTNSDSGPVTQNCFISPESGRETASTSKIPALEPVASF AQAQGGKGSAGNTWSQLSN
NNKDLLLGGVAPSPSSHSPAPPSSSAECNGLQPLVDQDGGGTKEPPEPPTVGSKKKSSKKDVISQTI PNPDLDW
VKNAQKAFDNTTEGKREGYSADSAQEASPARQNVSSASNPENDSSHVRITIP IKA PSLDPTNHKRKKRQSIKAVVE
KIMPEKALASGITMSSEVVNRILSNSEGNKKDPRVPKLSKMIENESPSVGLETGGNAEKVIPGGVSKPRKPPMVM
TPPTCTDHSPSRKLP EIQHPKFAAKRRWTC SKPKPSTMLREAVMATSDKLMLEPPSAYPI TPSSPLYTNTDSLTV
ITPVKKKRGRPKKQPLLT VETIHEGTSTSPVSPISREFPGTKKRKRRRN LAKLAQLVPGEDKPMSEMKFHKKV GK
LGVLDKKTIKTINKMKT LKRKNILNQILSCSSSVALKAKAPPETSPGAAAIESKL GKQINVSKRGTIYIGKKRGR
KPRAELPPPSEEPKTAIKHPRPVSSQPDVPAVPSNFQSLVASSPAAMHPLSTQLGGSNGNLSPASTETNFSELKT
MPNLQPI SALPTKTQKGIHSGTWKLSPPRLMANSPSHLCEIGSLKEITLSPVSESHSEETIPSDSGIGTDNNSTS
DQAEKSSESRRRYSFDFCSLDNPEAIPSDTSTKNRHGHRQKHLIVDNFLAHESLKKPKHKRKRKSLQNRDDLQFL
ADLEELITKFQVFRISHRSYTFYHENPYP SIFRINF DHYYPVPIQYDPLLYLRRTSDLKSKKKRGRPAKTNDTM
TKVPFLQGF SYPISGSYYAPYGMPTSM PMMNLGYYGQYPAPLYLSHTLGAASPFMRPTVPPPQFHTNSHIKMS
GAAKHKAKHGVHLQGPVSMGLGDMQPSLNPPKVGSASLSSGR LHKRKHKHKHKHKHKEDRILGTHDNL SGLFAGKAT
GFSSHILSERLSSADKELPLVSEKNKHKEKQKHQHSEAGHKASKNNFEVDTLSTLSLSDAQHWTQAKEKGDLSSE
PVDSC TKRYSGSGDGGSTRSENLDVFSEMNPSNDKWDSDVSGSKRRSYEGFGTYREKDIQAFKMNRKERS SYDS
SMSPGMPSPHLKVDQTAVH SKNEGSVPTMMTRKKPAAVDSVTIPPAPVLSLLAASAATSDAVGSSLKKRFRREI
EAIQCEVRKMCNYTKILSTKKNLDHVNKILKAKRLQRQSKTGNNFVKKRRGRPRKQPTQFDEDSRDQMPVLEKCI
DLPSKRGQKPSLSPLVLEPAASQDTIMATIEAVIHMAREAPLPPPPPPPLPPPPPPPLPPPPPLPKTPRGGKRK
HKPQAPAQPPQQSPPQQLPQE E EVKAKRQRKSRGSESEVLP

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FIGURE 591

CACTGCTTATTAAAGTACACTATTCAGGCATATCATGTAGGTTTACTTTCTGTGTTTCTAGAGACCAAGAAGCGG
GACGTTACCA**ATG**GGAAGAAAATCGCTGTACCTTCTGATTGTGGGGATCCTCATAGCATATTATATTTATACGCC
TCTCCCAGATAACGTTGAGGAGCCATGGAGAATGATGTGGATAAACGCACATCTGAAAACATACAAAATTTGGC
TACATTTGTGGAGCTCCATGGGAGTTCCATTTTTATGGATTCCTTTAAGGTTGTCGGGAGCTTTGATGAAGTCCC
ACCAACCTCAGATGAAAATGTCACTGTGACTGAGACAAAATTCAACAACATTCTTGTTCCGGGTATATGTGCCAAA
GAGAAAGTCTGAAGCACTAAGAAGGGGGTTGTTTTACATCCATGGTGGAGGCTGGTGCGTGGGAAGTGCTGCTCT
AAGTGGTTATGACTTGCTGTCAAGATGGACAGCAGACAGACTTGATGCTGTGTCGTATCAACCAACTACAGATT
AGCACCTAAGTATCATTTCCTCAATTCAATTTGAAGATGTATATAATGCCTTAAGGTGGTTCTTACGTAAAAAAGT
TCTTGCAAATATGGTGTGAACCCTGAGAGAATCGGTATTTCTGGAGATAGTGCAGGAGGGAATTTAGCTGCAGC
AGTGACTCAACAGCTCCTTGATGACCCAGATGTCAAGATCAAACCTCAAGATCCAGTCTTTAATTTATCCTGCCCT
TCAGCCTCTTGATGTAGATTTACCGTCATATCAAGAAAATTCAAATTTTCTATTTCTATCCAAATCACTCATGGT
CAGATTCTGGAGTGAATATTTTACCACTGATAGATCACTTGAAAAGCCATGCTTTCCAGACAACATGTACCTGT
GGAATCAAGTCATCTCTTCAAATTTATTAATTGGAGTTCCTGCTCCCTGAGAGGTTTATAAAAGGACATGTTTA
TAACAATCCAAATTATGGCAGTTCTGAGCTGGCTAAAAAATATCCAGGGTTCCTAGATGTGAGGGCAGCCCCTTT
GTTGGCTGATGACAACAAATTACGTGGCTTACCCCTGACCTATGTCATCACCTGTCAATATGATCTCTTAAGAGA
TGATGGACTCATGTATGTCACCCGACTTCGCAACACTGGGGTTCAGGTGACTCATAACCATGTTGAGGATGGATT
CCATGGAGCATTTCATTTCTGGGACTTAAAATTAGTCACAGACTTATAAATCAGTATATTGAGTGGCTAAAGGA
AAATCTA**TAG**TAAAACATGTAGCTATAACATATTTTAAAAATAAAATCTGAAAACCTCAGAAAATTTTCGATTAGA
AATTGGTCTTTCTTAGAATGGTCTAGTTAAGTTCACATGTAGCATAATTCTTAAATAGGCACTTTTCTGTTTTT
TTTTTCTTACTGTGGGATTTCAATTTCTACATTGTCTATCTGCTTTTTTCGGAGATTTTCTTCTTACAC
TGTTAATCTTATTTTAAAAAATATTACATCTTGTATACTTTATTTTTGTGAGTTGGCTACTATTTACGATGCAA
GAGAATAAATGTGAGCAAAGATTG

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FIGURE 592

MGRKSLYLLIVGILIAYYIYTPLPDNVEEPWRMMWINAHLKTIQNLATFVELHGSSIFMDSFKVVGSFDEVPPTS
DENVTVTETKFNNILVRVYVPKRKSEALRRGLFYIHGGGWCVGSAALSGYDLLSRWTADRLDAVVVSTNYRLAPK
YHFPIQFEDVYNALRWFLRKKVLAKYGVNPERIGISGDSAGGNLAAAVTQQLDDPDVKIKLKIQS LIYPALQPL
DVDLPSYQENSNFLFLSKSLMVRFWSEYFTTDRSLEKAMLSRQHVPVESH LFKFINWSSLLPERFIKGHVYN NP
NYGSSELAKKYPGF LDVRAAPLLADDNKLRGLPLTYVITCQYDLLRDDGLMYVTRLRNTGVQVTHNHVEDGFHGA
FSFLGLKISHRLINQYIEWLKENL

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FIGURE 593A

TTAAGGAAATCCGGGCTGCTCTTCCCCATCTGGAGTGGCTTTCCCCACATCGGCTCGTAAACTGATTATGAAAC
ATACGATGTTAATTTCGGAGCTGCATTTCCAGCTGGGCACTCTCGCGCGCTGGTCCCCGGGGCTCGCCCCCAC
CCCCTGCCCTTCCCTCCCGCTCCTGCCCCCATCCTCCACCCCCGCGCTGGCCACCCGCTCCTTGGCAGCCT
CTGGCGGCAGCGCGCTCCACTCGCCTCCCGTGCTCCTCTCGCCCATGGAATTAATTCTGGCTCCACTTGTGTGCTC
GGCCCAGGTTGGGGAGAGGACGGAGGGTGGCCGACGCGGTTCCTGAGTGAATTACCCAGGAGGGACTGAGCACA
GCACCAACTAGAGAGGGGTGAGGGGTGCGGGACTCGAGCGAGCAGGAAGGAGGCAGCGCCTGGCACCAGGGCTT
TGACTCAACAGAATTGAGACACGTTTGTAATCGCTGGCGTGCCCCGCGCACAGGATCCCAGCGAAAATCAGATTT
CCTGGTGAGGTTGCGTGGGTGGATTAATTTGGAAAAAGAACTGCCTATATCTTGCCATCAAAAACTCACGGAG
GAGAAGCGCAGTCAATCAACAGTAACTTAAGAGACCCCCGATGCTCCCCTGGTTTAACTTGTATGCTTGAAAT
TATCTGAGAGGGAATAAACATCTTTTCTTCTCCCTCTCCAGAAGTCCATTGGAATATTAAGCCCAGGAGTTGC
TTTGGGGATGGCTGGAAGTGCAATGTCTTCCAAGTTCTTCTAGTGGCTTTGGCCATATTTTTCTCCTTCGCCCCA
GGTTGTAATTGAAGCCAATTCTTGGTGGTCGCTAGGTATGAATAACCCTGTTTCAGATGTCAGAAGTATATATTAT
AGGAGCACAGCCTCTCTGCAGCCAATGGCAGGACTTCTCAAGGACAGAAGAACTGTGCCACTTGTATCAGGA
CCACATGCAGTACATCGGAGAAGGCGCGAAGACAGGCATCAAAGAATGCCAGTATCAATTCCGACATCGACGGTG
GAACTGCAGCACTGTGGATAACACCTCTGTTTTTGGCAGGGTGATGCAGATAGGCAGCCGCGAGACGGCCTTCAC
ATACGCCGTGAGCGCAGCAGGGGTGGTGAACGCCATGAGCCGGGCGTGCCGCGAGGGCGAGCTGTCCACCTGCGG
CTGCAGCCGCGCGCGCGCCCCAAGGACCTGCCGCGGGACTGGCTCTGGGGCGGCTGCGGCGACAACATCGACTA
TGGCTACCGCTTTGCCAAGGAGTTCGTGGACGCCGCGAGCGGGAGCGCATCCACGCCAAGGGCTCCTACGAGAG
TGCTCGCATCCTCATGAACCTGCACAACAACGAGGCCGGCCGAGGACGGTGTACAACCTGGCTGATGTGGCCTG
CAAGTGCCATGGGGTGTCGGGCTCATGTAGCCTGAAGACATGCTGGCTGCAGCTGGCAGACTTCCGCAAGGTGGG
TGATGCCCTGAAGGAGAAGTACGACAGCGCGGCGGCCATGCGGCTCAACAGCCGGGGCAAGTTGGTACAGGTCAA
CAGCCGCTTCAACTCGCCCCACCACACAAGACCTGGTCTACATCGACCCAGCCCTGACTACTGCGTGCGCAATGA
GAGCACCGGCTCGCTGGGCACGCAGGGCCGCTGTGCAACAAGACGTGCGAGGGCATGGATGGCTGCGAGCTCAT
GTGCTGCGGCCGTGGGTACGACCAGTTCAAGACCGTGACAGCGGAGCGCTGCCACTGCAAGTTCCACTGGTGCTG
CTACGTCAAGTGCAAGAAGTGACCGGAGATCGTGGACCAGTTTGTGTGCAAGTAGTGGGTGCCACCCAGCACTCA
GCCCCGCTCCCAGGACCCGCTTATTTATAGAAAGTACAGTGATTCTGGTTTTTGGTTTTTAGAAATATTTTTTAT
TTTTCCCCAAGAATTGCAACCGGAACCATTTTTTTCTGTTACCATCTAAGAACTCTGTGGTTTATTATTAATA
TTATAATTATTATTTGGCAATAATGGGGGTGGGAACCACGAAAAATATTTATTTTGTGGATCTTTGAAAAGGTAA
TACAAGACTTCTTTTGGATAGTATAGAATGAAGGGGGAAATAACACATACCCTAACTTAGCTGTGTGGGACATGG
TACACATCCAGAAGGTAAAGAAATACATTTTCTTTTTCTCAAATATGCCATCATATGGGATGGGTAGGTTCCAGT
TGAAAGAGGGTGGTAGAAATCTATTCACAATTCAGCTTCTATGACCAAATGAGTTGTAAATTCTCTGGTGAAG
ATAAAAGGTCTTGGGAAAACAAAACAAAACAAAACCTCCCTTCCCCAGCAGGGCTGCTAGCTTGCTTTCTG
CATTTTCAAAATGATAATTTACAATGGAAGGACAAGAATGTCATATTCTCAAGGAAAAAGGTATATCACATGTC
TCATTCTCCTCAAATATTCCATTTCAGACAGACCGTCATATTCTAATAGCTCATGAAATTTGGGCAGCAGGGAG
GAAAGTCCCCAGAAATTAATAAAATTTAAACTCTTATGTCAAGATGTTGATTTGAAGCTGTTATAAGAATTGGGA
TTCCAGATTTGTAAAAAGACCCCCAATGATTCTGGACACTAGATTTTTTGTGTTGGGGAGGTTGGCTTGAACATAA
ATGAAATATCCTGTATTTTCTTAGGGATACTTGGTTAGTAAATTATAATAGTAGAAATAATACATGAATCCCATT
CACAGGTTTCTCAGCCCCAAGCAACAAGGTAATTGCGTGCCATTACAGCACTGCACCAGAGCAGACAACCTATTTGA
GGAAAAACAGTGAAATCCACCTTCCTCTTCACACTGAGCCCTCTCTGATTCTCCGTGTTGTGATGTGATGCTGG
CCACGTTTCCAAACGGCAGCTCCACTGGGTCCCCTTTGGTTGTAGGACAGGAAATGAAACATTAGGAGCTCTGCT
TGGAAAACAGTTCACTACTTAGGGATTTTTGTTTCTTAAACTTTTTATTTTGGAGAGCAGTAGTTTTCTATGTTT
TAATGACAGAATTTGGCTAATGGAATTCACAGAGGTGTTGCAGCGTATCACTGTTATGATCCTGTGTTTAGATTA
TCCACTCATGCTTCTCCTATTGTACTGCAGGTGTACCTTAAACTGTTCCAGTGTACTTGAACAGTTGCATTTA
TAAGGGGGGAAATGTGGTTTAATGGTGCTGATATCTCAAAGTCTTTTGTACATAACATATATATATATATACAT
ATATATAAATATAAATATAAATATATCTCATTGCAGCCAGTGATTTAGATTTACAGCTTACTCTGGGGTTATCTC
TCTGTCTAGAGCATTGTTGTCCTTCACTGCAGTCCAGTTGGGATTATTCCAAAAGTTTTTTGAGTCTTGAGCTTG
GGCTGTGGCCCCGCTGTGATCATACCTGAGCACGACGAAGCAACCTCGTTTCTGAGGAAGAAGCTTGAGTTCTG
ACTCACTGAAATGCGTGTTGGGTTGAAGATATCTTTTTTCTTTCTGCCTCACCCCTTGTCTCCAACCTCCAT

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FIGURE 593B

TTCTGTTCACTTTGTGGAGAGGGCATTACTTGTTTCGTTATAGACATGGACGTTAAGAGATATTCAAAACTCAGAA
GCATCAGCAATGTTTCTCTTTTCTTAGTTCAATTCTGCAGAAATGGAAACCCATGCCTATTAGAAATGACAGTACTT
ATTAATTGAGTCCCTAAGGAATATTCAGCCCACTACATAGATAGCTTTTTTTTTTTTTTTTTTTTTTAATAAGG
ACACCTCTTTCAAACAGGCCATCAAATATGTTCTTATCTCAGACTTACGTTGTTTTAAAAGTTTGAAAGATAC
ACATCTTTTCATACCCCCCTTAGGAGGTTGGGCTTTCATATCACCTCAGCCAAGTGTGGCTCTTAATTTATTGC
ATAATGATATCCACATCAGCCAAGTGTGGCTCTTTAATTTATTGCATAATGATATTCACATCCCCTCAGTTGCAG
TGAATTGTGAGCAAAAGATCTTGAAAGCAAAAAGCACTAATTAGTTTAAAATGTCACCTTTTTTGTTTTTATTAT
ACAAAACCATGAAGTACTTTTTTTATTTGCTAAATCAGATTGTCCTTTTTAGTGACTCATGTTTATGAAGAGA
GTTGAGTTTAACAATCCTAGCTTTTAAAAGAACTATTTAATGTAAATATTCTACATGTCATTCAGATATTATG
TATATCTTCTAGCCTTTATTCTGTACTTTTAATGTACATATTCTGTCTTGCGTGATTTGTATATTTCACTGGTT
TAAAAACAAACATCGAAAGGCTTATTCCAAATGGAAGATAGAATATAAAATAAAACGTTACTTGTAACAAAAA
AAA

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FIGURE 594

MAGSAMSSKFFLVALAIAFFSFAQVVIEANSWWSLGMNPNVQMSEVYIIIGAQPLCSQLAGLSQGQKKLCHLYQDHM
QYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYAVSAAGVVNAMSRACREGELSTCGCS
RAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAAGSYESARILMNLHNNEAGRRTVYNLADVACKC
HGVSGCSLKTCWLQLADFRKVGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNEST
GSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKTVQTERCHCKFWCCYVKCKKCTEIVDQFVCK

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FIGURE 595

CCTTTAGAGGAGCCTGAGAAGAGGCAGAGGAAGGGCGAAACATGGCTGCTCTAGGAGTCCAGAGTATCAACTGGC
AGAAGGCCTTCAACCGACAAGCGCATCACACAGACAAGTTCTCCAGCCAGGAGCTCATCTTGCGGAGAGGCCAAA
ACTTCCAGGTCTTAATGATCATGAACAAAGGCCTTGGCTCTAACGAAAGACTGGAGTTCATTGACACCACAGGGC
CTTACCCCTCAGAGTCGGCCATGACGAAGGCTGTGTTTCCACTCTCCAATGGCAGTAGTGGTGGCTGGAGTGC GG
TGCTTCAGGCCAGCAATGGCAATACTCTGACTATCAGCATCTCCAGTCCTGCCAGCGCACCCATAGGACGGTACA
CAATGGCCCTCCAGATCTTCTCCAGGGCGGCATCTCCTCTGTGAACTTGGGACGTTTCATACTGCTTTTTTAACC
CCTGGCTGAATGTGGATAGCGTCTTTATGGGTAACCATGCTGAGAGAGAAGAGTATGTTTCAGGAAGATGCCGGCA
TCATCTTTGTGGGAAGCACAAACCGAATTGGCATGATTGGCTGGAACCTTGGACAGTTTGAAGAAGACATTCTCA
GCATCTGCCTCTCAATCTTGGATAGGAGTCTGAATTTCCGCCGTGACGCTGCTACTGATGTGGCCAGCAGAAATG
ACCCCAAATACGTTGGCCGGGTGCTGAGTGCCATGATCAATAGCAATGATGACAATGGTGTGCTTGCTGGGAATT
GGAGCGGCACCTTACACCGGTGGCCGGGACCCAAGGAGCTGGGACGGCAGCGTGGAGATCCTCAAAAATTGGAAAA
AATCTGGCTTCAGCCCAGTCCGATATGGCCAGTGCTGGGTCTTTGCTGGGACCCTCAACACAGCGCTGCGGTCTT
TGGGGATTCTTCCCGGGTGATCACCAACTTCAACTCAGCTCATGACACAGACC GAAATCTCAGTGTGGATGTGT
ACTACGACCCCATGGGAAACCCCTGGACAAGGGTAGTGATAGCGTATGGAATTTCCATGTCTGGAATGAAGGCT
GGTTTGTGAGGTCTGACCTGGGCCCCCGTACGGTGGATGGCAGGTGTTGGATGCTACCCCGCAGGAAAGAAGCC
AAGGGGTGTTCCAGTGCGGCCCCGCTTCGGTCATTGGTGTTTCGAGAGGGTGATGTGCAGCTGAACTTCGACATGC
CCTTTATCTTCGCGGAGGTTAATGCCGACCGCATCACCTGGCTGTACGACAACACCACTGGCAAACAGTGGAAGA
ATTCCGTGAACAGTCACACCATTTGGCAGGTACATCAGCACCAAGGCGGTGGGCAGCAATGCTCGCATGGACGTCA
CGGACAAGTACAAGTACCCAGAAGGCTCTGACCAGGAAAGACAAGTGTTCCAAAAGGCTTTGGGGAAACTTAAAC
CCAACACGCCATTTGCCGCGACGTCTTCGATGGGTTTGGAAACAGAGGAACAGGAGCCAGCATCATCGGGGAAGC
TGAAGGTCGCTGGCATGCTGGCAGTAGGCAAAGAAGTCAACCTGGTCTCTACTGCTCAAAAACCTGAGCAGGGGATA
CGAAGACAGTGACAGTGAACATGACAGCCTGGACCATCATCTACAACGGCACGCTTGTACATGAAGTGTGGAAGG
ACTCTGCCACAATGTCCCTGGACCTGAGGAAGAGGCAGAACATCCCATAAAGATCTCGTACGCTCAGTATGAGA
GGTACCTGAAGTCAGACAACATGATCCGGATCACAGCGGTGTGCAAGGTCCCAGATGAGTCTGAGGTGGTGGTGG
AGCGGGACATCATCTCTGGACAACCCACCTTGACCCTGGAGGTGCTGAACGAGGCTCGTGTGCGGAAGCCTGTGA
ACGTGCAGATGCTCTTCTCCAATCCACTGGATGAGCCGGTGAGGGACTGCGTGCTGATGGTGGAGGGGAAGCGGCC
TGCTGTTGGGTAACCTGAAGATCGACGTGCCGACCCTAGGGCCCAAGGAGCGGTCCCAGGTTCCGTTTTTGATATCC
TGCCCTCCCGGAGTGGCACCAAGCAACTGCTCGCCGACTTCTCCTGCAACAAGTTCCCTGCAATCAAGGCCATGT
TGTCCATCGACGTAGCCGAATGAAGGGCGCTGGTGGCCTCCCGTACAACTTGGACAACACGGAGCAGGGAGAGC
TCACCATGGAATGAACCCCCCGCCATGCTGTCCGGCCTGGGAAACCTCTCCATCTCCCAAGGCTGCCAGACAT
GGACTCCGGGCTCCAGCACATCCCCCTCTCCTCTCCCCAGGTTGGGGCTGGGTCCACCCTGTCTATGACTTGA
TCACTTTTGCACATTCCCTGGCCGTTTCTCCCCAGAGCTGCCTGCTCTGTGAGCCCCACAGCCCTGCTCATTCCT
CACGCCCTTCAATGCTGCAGGATGGACTGGCCCTGACCCAGGGACTCTCCAACGGGATAACAGGAGAGAAGCTG
GTCTAGACTGTTTGTGATCCCCAACCTGCACGGGGCATTCTGCTTCTCTCAGGCCACCACAGAGGGCAGGG
GATGGTTAGTCACCTGCCCCAGCACTCACACCCTAACTCAAATAAATGTTAAATAAGTGCGATCACAC

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FIGURE 596

MAALGVQSINWQKAFNRQAHHTDKFSSQELILRRGQNFQVLMIMNKGLGSNERLEFIDTTGPYPSESAMTKAVFP
LSNGSSGGWSAVLQASNGNTLTISISSPASAPIGRYTALQIFSQGGISSVKLGTFILLFNPWLNVDSVFMGNHA
EREEYVQEDAGIIFVGSTNRIGMIGWNFGQFEEDILSICLSILDRSLNFRDAATDVASRNDPKYVGRVLSAMIN
SNDDNGVLAGNWSGTYTGGRDPRSWDGSVEILKNWKKSGFSPVRYGQCWVFAGTLNTALRSLGIPSRVITNFNSA
HDTDRNLSVDVYYDPMGNPLDKGSDSVWNFHVWNEGWFVRSDLGPPYGGWQVLDATPQERSQGVFQCGPASVIGV
REGDVQLNFDMPFFIFAEVNADRI TWLYDNTTGKQWKNSVNSHTIGRYISTKAVGSNARMDVTDKYKYPEGSDQER
QVFQKALGKLKPNTPFATSSMGLETEEQEPSIIGKLKVAGMLAVGKEVNLVLLLKNLSRDTKTVTVNMTAWTII
YNGTLVHEVWKDSATMSLDPEEEAEHP IKISYAQYERYLKSDNMIRITAVCKVPDESEVVVERDIILDNPTLTLE
VLNEARVRKPVNVQMLFSNPLDEPV RDCVLMVEGSGLLLGNLKIDVPTLGPKERSRVRFDILPSRSGTKQLLADF
SCNKFFPAIKAMLSIDVAE

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FIGURE 597

GGGTCTGTCCCATCCATCCTGACCTGTTCCATCTCAGCCCCAGGACTCAGTACTGCGGTTGCCAACACTGCTGC
CAGGCATGATGGATGGGCCACGTTCCGATGTGGGCCGTTGGGGTGGCAACCCCTTGAGCCCCCTACCACGCCAT
CTCCAGAGCCAGAGCCAGAGCCAGACGGACGCTCTCGCAGAGGAGGAGGCCGTTCTTCTGGGCTCGCTGCTGTG
GCTGCTGTTTCATGCCGAAATGCGGCAGATGACGACTGGGGACCTGAACCCCTCTGACTCCAGGGGTGAGGGTCCA
GCTCTGGCACTCGAAGACCTGGCTCCCGGGGCTCAGACTCCCGCCGGCCTGTATCCCGGGGACGCGGTGTCAATG
CAGCTGGAGATGGCACCATCCGAGAGGGCATGCTAGTAGTGACGGTGTGGACTTGCTGAGCTCGCGCTCGGACC
AGAACCGCCGAGAGCACCACACAGACGAGTATGAGTACGACGAGCTGATAGTGCGCCGCGGGCAGCCTTTCCATA
TGCTCCTCCTCTGTCCCGGACCTATGAATCCTCTGATCGCATCACCCCTTGAGTTACTCATCGGAAACAACCCCG
AGGTGGGCAAGGGCACGCACGTGATCATCCAGTGGGCAAGGGGGGAGTGGAGGCTGGAAAGCCCAGGTGGTCA
AGGCCAGTGGGCAGAATCTGAACCTGCGGGTCCACACTTCCCCAACGCCATCATCGGCAAGTTTCAGTTCACAG
TCCGCACACAATCAGACGCTGGGGAGTTCCAGTTGCCCTTTGACCCCGCAATGAGATCTACATCCTCTTCAACC
CCTGGTGGCCAGAGGACATTGTGTACGTGGACCATGAGGATTGGCGGCAGGAGTATGTTCTTAATGAGTCTGGGA
GAATTTACTACGGGACCGAAGCACAGATTGGTGAGCGGACCTGGAACACGGCCAGTTTGACCACGGGGTGTCTGG
ATGCCTGCTTATACATCCTGGACCGGCGGGGGATGCCATATGGAGGCCGTGGAGACCCAGTCAATGTCTCCCGGG
TCATCTCTGCCATGGTGAACCTCCCTGGATGACAATGGAGTCCCTGATTGGGAACCTGGTCTGGTGAATTACTCCCGAG
GCACCAACCCATCAGCGTGGGTGGGCAGCGTGGAGATCCTGCTTAGCTACCTACGCACGGGATATTCCGTCCCCCT
ATGGCCAGTGTCTGGGTCTTTGCTGGAGTGACCACCACAGTGCTGCGCTGCCTGGGTCTGGCCACCCGTAAGTCA
CCAACTTCAACTCCGCCCACGACACAGACACATCCCTTACCATGGACATCTACTTCGACGAGAACATGAAGCCCC
TGGAGCACCTGAACCATGATTCTGTCTGGAACCTCCATGTGTGGAACGACTGCTGGATGAAGAGGCCGGATCTGC
CCTCGGGCTTTGATGGGTGGCAGGTGGTGGATGCCACACCCCAAGAGACTAGCAGTGGCATCTTCTGTCTGCGGCC
CCTGCTCTGTGGAGTCCATCAAGAATGGCCTGGTCTACATGAAGTACGACACGCCTTTTCAATTTTTGCTGAGGTGA
ATAGTGACAAGGTGTACTGGCAGCGGCAGGATGATGGCAGCTTCAAGATTGTTTATGTGGAGGAGAAGGCCATCG
GCACACTCATTGTCAAAAGGCCATCAGCTCCAACATGCGGGAGGACATCACCTACCTCTATAAGCACCCAGAAG
GCTCAGACGCAGAGCGGAAGGCAGTAGAGACAGCAGCAGCCACGGCAGCAAACCCAATGTGTATGCCAACCGGG
GCTCAGCGGAGGATGTGGCCATGCAGGTGGAGGCACAGGACGCGGTGATGGGGCAGGATCTGATGGTCTCTGTGA
TGCTGATCAATCAGACAGCAGCCGCCGACAGTGAAACTGCACCTCTACCTCTCAGTCACTTTCTATACTGGTG
TCAGTGGTACCATCTTCAAGGAGACCAAGAAGGAAGTGGAGCTGGCACCAGGGGCCCTCGGACCGTGTGACCATGC
CAGTGGCCTACAAGGAATACCGGCCCCATCTTGTGGACCAGGGGGCCATGCTGCTCAATGTCTCAGGCCACGTCA
AGGAGAGCGGGCAGGTGCTGGCCAAGCAGCACACCTTCCGTCTGCGCACCCACAGCCTCTCCCTCACGTTACTGG
GAGCAGCAGTGGTTGGCCAGGAGTGTGAAGTACAGATTGTCTTCAAGAACCCCTTCCCGTACCCCTACCAATG
TCGTCTTCCGGCTCGAAGGCTCTGGGTTACAGAGGCCCAAGATCCTCAACGTTGGGGACATTGGAGGCAATGAAA
CAGTGACACTGCGCCAGTCGTTTGTGCTGTGCGACCAGGCCCCGCCAGCTCATTGCCAGCTTGGACAGCCAC
AGCTCTCCAGGTGCACGGTGTATCCAGGTGGATGTGGCCCCAGCCCCTGGGGATGGGGGCTTCTTCTCAGACG
CTGGAGGTGACAGTCACTTAGGAGAGACCATCCCTATGGCATCTCGAGGTGGAGCTTAGCCCTGTGCCAGGAGCA
ATGGGACTGGAGTCAGATGAGCAAGGACATTGCCCAAGATAGGGGCACACTACAGAGCAGCTCCCCAGGAGCTC
AGGTGGGGAGTCCAGGGCTCCCGGAGAGGGAGTCAGTCTTCACTTGCACTGGGGGAACAGATGCTAATAAACTGT
TTTTTAATG

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FIGURE 598

MMDGPRSDVGRWGGNPLQPPTTPSPEPEPEPDGRSRRGGGRSFWARCCGCCSCRNAADDDWGPEPSDSRGRGSSS
GTRRPGSRGSDSRPVSRRSGVNAAGDGTIREGMLVVNGVDLLSSRSDQNRREHHTDEY EYDELIVRRGQPFHML
LLLSRTYESSDRITLELLIGNNPEVGKGTHVIIPVGKGGSGGWAQVVKASGQNLNLRVHTSPNAIIGKFQFTVR
TQSDAGEFQLPFDPRNEIYILFNWCPEDIVYVDHEDWRQEYVLNESGRIYYGTEAQIGERTWNYGQFDHGVLD
CLYILDRRGMPYGGRGDPVNVSRVISAMVNSLDDNGVLIGNWSGDYSRGTNP SAWVGSVEILLSYLRTGYSVPYG
QCWVFAGVTTTTLRCLGLATRTVTNFNSAHD TD TSLTMDIYFDENMKPLEHLNHD SVWNFHVWNCW MKRPDLPS
GFDGWQVVDATPQETSSGIFCCGPCSVESIKNGLVYMKYDTPFIFAEVNSDKVYWQRQDDGSFKIVYVEEKAIGT
LIVTKAISSNMREDITYLYKHPEGSDAERKAVETAAAHGSKPNVYANRGS AEDVAMQVEAQDAVMGQDLMVSVML
INHSSSRRTVKLHLYLSVTFTYTGVS GTIFKETKKEVELAPGASDRVTMPVAYKEYRPHLVDQ GAML LNVS GHVKE
SGQVLAKQHTFRLRTPDLSLTL LGAAVVGQECEVQIVFKNPLPVTLTNVVFRLEGSGLQRPKILNVGDI GGNETV
TLRQSFVPVRPGPRQLIASLDSPQLSQVHGVIQVDVAPAPGDGGFFSDAGGDSHLGETIPMASRGA

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FIGURE 599

AGCATCTACAAAGGAGGAATAGTCAAAGCAGCAGCGGCGGGCGGGCGGGCGGGCAGCAGCAGCAGCAGCAGGAGAC
CTTCTCTGATGGATGACCTCTGTGAAGCAAATGGCACTTTTGCCATCAGCTTATTTAAATATTGGGGGAAGAGG
ACAACTCAAGAAACGTATTCTTCTCTCCCATGAGCATCTCCTCTGCCCTGGCCATGGTCTTCATGGGGGCAAAGG
GAAGCACTGCAGCCCAGATGTCCCAGGCACTTTGTTTATACAAAGACGGAGATATTCACCGAGGTTTCCAGTCAC
TTCTCAGTGAAGTTAACAGAACTGGCACTCAGTACTTGCTTAGAACTGCCAACAGACTCTTTGGAGAAAAGACGT
GTGATTTCTTCCAGACTTTAAAGAATACTGTCAGAAGTTCTATCAGGCAGAGCTGGAGGAGTTGTCCTTTGCTG
AAGACACTGAAGAGTGCAGGAAGCATATAAATGACTGGGTGGCAGAGAAGACTGAAGGTAAGATTCAGAGGTAC
TGGATGCTGGGACAGTCGATCCCCTGACAAAGCTAGTCCTTGTGAATGCCATTTATTTCAAGGGAAAGTGGAATG
AGCAATTTGACAGAAAGTACACAAGGGGAATGCTCTTTAAAACCAACGAGGAAAAAAGACAGTGCAGATGATGT
TTAAGGAAGCTAAGTTTAAATGGGGTATGCGGATGAGGTACACACCCAGGTCTTGGAGCTGCCCTATGTGGAAG
AGGAGCTGAGCATGGTCATTCTGCTTCCCGATGACAACACGGACCTCGCCGTGGTGGAAAAAGCACTTACATATG
AGAAATTCAAAGCCTGGACAAATTCAGAAAAGTTGACAAAAAGTAAGGTTCAAGTTTTCTTCCAGATTAAAGC
TGGAGGAGAGTTATGACTTGGAGCCTTTCTTCGAAGATTAGGAATGATCGATGCTTTTGACGAAGCCAAGGCAG
ACTTTTCTGGAATGTCAACTGAGAAGAATGTGCCTCTGTCCAAGGTTGCCACAAGTGCTTCGTGGAGGTCAATG
AGGAAGGCACAGAGGCTGCCGCAGCCACTGCTGTGGTCAGGAATTCGCGGTGCAGCAGAAATGGAGCCAAGATTCT
GTGCAGACCACCTTTTCTTTCTTCATCAGGCGCCACAAAACCAACTGCATCTTGTCTGTGGCAGGTTCTCTT
CTCCGTAAAGAGGAGCAATTGCTGTACATACCCTCCTTTCTTCTACCTATCTTGCCTTAATTAACATTCCCTGT
GACCTAGTTGGTGCAGTGGCTTGAATGCCAAAATAAAGCGTGTGCACTGG

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FIGURE 600

MDDLCEANGTFAISLFLKILGEEDNSRNVFFSPMSSSALAMVFMGAKGSTAAQMSQALCLYKGDIIHRGFQSLLS
EVNRTGTQYLLRTANRLFGEKTCDFLPDFKEYCQKFYQAELEELSFAEDTEECRKHINDWVAEKTEGKISEVLDA
GTVDPLTKLVLVNAIYFKGKWNEQFDRKYTRGMLFKTNEEKKTVMFKEAKFKMGYADEVHTQVLELPYVEEEL
SMVILLPDDNTDLAVVEKALTYEKFKAWTNSEKLTISKVQVFLPRLKEESYDLEPFLRRRLGMIDAFDEAKADFS
GMSTEKNVPLSKVAHKCFVEVNEEGTEAAAATAVVRNSRCSRMEPRFCADHPFLFFIRRHKTNCILFCGRFSSP

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FIGURE 601A

CAGGTCTCGACTTCACTGCTCTGTGTCCTCTGCTCCAGGAGGCCAGCCTGTGTGGCCCTGTGACCTGCAGGTAT
TGGAAGAGCCACAGCTAAGATGCCAGGAACCCCTGGAAGCCTAGAAATGGGACTGTTGACATTTAGGGATGTGGC
CATAGAATTCTCTCCGGAGGAGTGGCAATGTCTGGACACTGCACAGCAGAATTTATATAGGAATGTGATGTTAGA
GAACTACAGAAACCTGGCCTTCCTGGGTATTGCTCTCTCTAAGCCAGACCTGATTACTTATCTGGAGCAAGGAAA
AGAGCCCTGGAATATGAAGCAACATGAGATGGTGGATGAACCCACAGGTATATGTCCTCATTTTCCTCAAGACTT
TTGGCCAGAGCAGAGCATGGAAGATTCTTTTCAAAAAGTATTACTGAGAAAATATGAAAAATGTGGACATGAGAA
TTTACAGTTAAGAAAAGGTTGTAAAAGTGTGGATGAGTGTAAAGGTGCACAAAGAAGGTTATAATAAACTTAACCA
GTGTCTCACAACTGCCCAGAGCAAAGTATTTCAATGTGGGAAATATTTGAAAGTCTTCTATAAAATTTTAAATTC
AAACAGACATACGATAAGACATACCGGAAAGAAATGCTTCAAATGTAAAAAATGTGTCAAGTCATTTTGCATCCG
TTTACACAAAACCCAACATAAATGCGTTTATATTACAGAGAAGTCCTGTAAATGTAAAGAATGTGAAAAACCTT
TCATTGGTCCTCAACCCCTTACTAATCATAAGGAAATTCATACTGAAGATAAACCCCTACAAATGTGAAGAATGTGG
CAAAGCTTTTAAGCAGCTCTCAACCCCTTACTACACATAAAATAATCTGTGCTAAAGAGAAAATCTACAAGTGTGA
AGAATGTGGCAAAGCATTCTATGGTCCTCAACCCCTAACTAGACATAAGAGGATACACACTGGAGAGAAAACCTTA
CAAATGTGAAGAATGTGGCAAAGCTTTTAGCCATTCTTCAACCCCTTGCTAAACATAAGAGAATTCATACTGGAGA
GAAACCCCTACAAATGTGAAGAATGTGGCAAAGCTTTTAGCCATTCTTCAACCCCTTGCTAAACATAAGAGAATTCA
TACTGGAGAGAAAACCTACAAATGTAAAGAATGTGGCAAAGCTTTTAGCAATTCCTCAACCCCTTGCTAATCATAA
GATAACTCATACTGAAGAGAAAACCTACAAATGTAAAGAATGTGACAAAACCTTTAAGCGACTCTCAACCCCTTAC
TAAACATAAAATAATACATGCTGGAGAGAAAACCTCTACAAATGTGAAGAATGTGGCAAAGCTTTTAATCGATCTTC
AAATCTTACTATACATAAGTTTATTCATACTGGAGAGAAAACCTTACAAGTGTGAAGAATGTGGCAAAGCATTAA
CTGGTCCTCAAGCCTTACTAAACATAAAAGATTTCTACTAGAGAGAAAACCCCTTCAAATGTAAAGAATGTGGCAA
AGGATTTATATGGTCTTCAACCCCTAACTAGACATAAGAGGATACACACTGGAGAGAAAGCCCTACAAATGTGAAGA
ATGTGGCAAAGCTTTTAGGCAATCCTCAACCCCTTACTAAACATAAGATAATTCATACTGGAGAGAAAACCTACAA
ATTTGAAGAATGTGGCAAAGCTTTTAGACAATCCTTAACCCCTTAATAAACATAAGATAATTCATAGTAGAGAGAA
ACCCTACAAATGTAAAGAATGTGGCAAAGCTTTTAAGCAATTCCTCAACCCCTTACTACACATAAAATAATTCATGC
TGGAAAGAACTCTACAAATGTGAAGAATGTGGCAAAGCTTTTAATCATTCTCAAGTCTTTCTACACATAAGAT
AATTCATACTGGAGAGAAAGTCTTACAAGTGTGAAGAATGTGGCAAAGCATTCTATGGTCCTCAACCCCTAAGAAG
ACATAAGAGGATACACACTGGAGAGAAAACCTACAAATGTGAAGAATGTGGCAAAGCTTTTAGCCATTCTTCAGC
CCTTGCTAAACATAAGAGAATTCATACTGGAGAGAAAACCTACAAATGTAAAGAATGTGGCAAAGCTTTTAGCAA
TTCTCTCAACCCCTTGCTAATCATAAGATAACTCATACTGAAGAGAAAACCTACAAATGTAAAGAATGTGACAAAAC
TTTTAAGCGACTCTCAACCCCTTACTAAACATAAAATAATACATGCTGGAGAGAAAACCTCTACAAATGTGAAGAATG
TGGCAAAGCTTTTAATCGATCTTCAAATCTTACTATACATAAGTTTATTCATACTGGAGAGAAAACCTTACAAGTG
TGAAGAATGTGGCAAAGCATTTAAGTGGTCCTCAAGCCTTACTAAACATAAAAGAATTCATACTAGAGAGAAACC
CTTCAAATGTAAAGAATGTGGCAAAGCATTATATGGTCTTCAACCCCTAACTAGACATAAGAGGATACACACTGG
AGAGAAGCCCTACAAATGTGAAGAATGTGGCAAAGCTTTTAGCCGTTCTCAACCCCTTACTAAGCATAAGACAAT
TCATACTGGAGAGAAAACCTACAAATGTAAAGAATGTGGCAAAGCTTTTAAGCACTCCTCAGCCCTTGCTAAACA
TAAATAATACATGCTGGAGAGAAAACCTCTACAAATGTGAGGAATGTGGCAAAGCTTTTAATCAATCTTCAAATCT
TACGACACATAAGATAATTCATACTAAAGAGAAAACCTTCCAAGAGTGAAGAATGTGACAAAGCATTATCTGGTC
CTCAACCCCTTACTGAACATAAGAGAATTCATACCAGAGAGAAAACCTACAAATGTGAAGAATGTGGCAAAGCATT
TAGCCAGCCTTACACCTTACTACACATAAGAGGATGCACACTGGAGAGAAAACCTACAAATGTGAAGAATGTGG
CAAAGCTTTTAGCCAATCCTCAACCCCTTACTACACATAAGATAATTCATACTGGAGAGAAAACCTACAAATGTGA
AGAATGTGGCAAAGCTTTTAGGAAAATCTTCAACTCTTACTGAACATAAGATAATTCATACTGGAGAGAAAACCTTA
CAAATGTGAAGAATGTGGCAAAGCATTAGCCAATCCTCAACCCCTAACTAGACATACGAGGATGCACACTGGAGA
GAAACCATACAAATGTGAAGAATGTGGGAAAGCTTTTAATCGATCCTCAAAGCTTACTACACATAAGATAATTCAT
TACTGGAGAGAAAACCTTACAAGTGTGAAGAATGTGGCAAAGCATTATATCATCCTCAACCCCTAAATGGACATAA
GAGAATTCATACTAGAGAGAAAACCTACAAATGTGAAGAATGTGGCAAAGCATTAGCCAATCTTCAACCCCTAAC
TAGACATAAGAGGTTGCACACCCGAGAGAAAACCTACAAATGTGGAGAATGTGGCAAAGCCTTTAAAGAGTCCTC
AGCTCTTACTAAACATAAGATAATTCACACTGGAGAGAAAACCTACAAATGTGAAAAATGTTGCAAAGCCTTTAA
CCAGTCTTCAATCCTTACTAACCATAAGAAAATTCATACTATCACACCTGTAATCCCACTACTTTGGGAGGCCGA

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FIGURE 601B

GGCGGGCGGATCACGAGGTCAGGAGATGGAGACCATCCTGGCTAACACAGTGAAACCCCTTCTCTACTAAAAAAT
ACAAAAAACTAGCCGGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTATGCGAGAGGCTGAGGCAGGAGAATGGCG
TGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCACGCCACTGCACTCAAGCCTGGGCGACAGAGCGAGACT
CCGTCTCAAAAAAA

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FIGURE 602

MPGTPGSLEMGLLTFRDVAIEFSPEEWQCCLDTAQONLYRNVMLENYRNLAFLGIALSKPDLITYLEQGKEPWNMK
QHEMVDEPTGICPHFPQDFWPEQSMEDSFQKVLLRKYKCGHENLQLRKGCKSVDECKVHKEGYNKLNQCLTTAQ
SKVFQCGKYLKVFYKFLNSNRHTIRHTGKKCFKCKKCVKSFCIRLHKTQHKCVYITEKSCCKCECEKTFHWSSTL
TNHKEIHTEDKPYKCEECGKAFKQLSTLTTHKII CAKEKIYKCEECGKAFLWSSTLTRHKRIHTGEKPYKCEECG
KAFSHSSTLAKHKRIHTGEKPYKCEECGKAFSHSSALAKHKRIHTGEKPYKCEECGKAFFSNSSTLANHKIHTHEE
KPYKCECDKTFKRLSTLTCHKIIHAGEKLYKCEECGKAFFNRSSNLTIHKFIHTGEKPYKCEECGKAFFNWSSSLT
KHKRFHTREKPFKCECGKGF IWSSTLTRHKRIHTGEKPYKCEECGKAFFRQSSTLTCHKIIHTGEKPYKFEECGK
AFFRQSLTLNKHKIIHSREKPYKCECGKAFKQFSTLTTHKIIHAGKKLYKCEECGKAFFNHSSSLSTHKIIHTGEK
SYKCEECGKAFLWSSTLRRHKRIHTGEKPYKCEECGKAFFSHSSALAKHKRIHTGEKPYKCEECGKAFFSNSSTLAN
HKIHTHEEKPYKCECDKTFKRLSTLTCHKIIHAGEKLYKCEECGKAFFNRSSNLTIHKFIHTGEKPYKCEECGKA
FFNWSSSLTCHKRIHTREKPFKCECGKAFF IWSSTLTRHKRIHTGEKPYKCEECGKAFFRSSTLTCHKTIHTGEK
PYKCECGKAFFKHSSALAKHKIIHAGEKLYKCEECGKAFFNQSSNLTTCHKIIHTKEKPSKSECDKAFF IWSSTLTEH
KRIHTREKPYKCEECGKAFFSQPSHLTTHKRMHTGEKPYKCEECGKAFFSQSSTLTTHKIIHTGEKPYKCEECGKAFF
RKSSTLTEHKIIHTGEKPYKCEECGKAFFSQSSTLTRHTRMHTGEKPYKCEECGKAFFNRSSSLTTCHKIIHTGEKPY
KCEECGKAFFISSSTLNGHKRIHTREKPYKCEECGKAFFSQSSTLTRHKLHTGEKPYKCGECGKAFFKESSALTKHK
IIHTGEKPYKCEKCKAFFNQSSILTNHKKIHTITPVIPLLEAEAGGSRGQEMETILANTVKPLLY

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FIGURE 603

CGGACATGGCCGCACGCCTTCTCCGAGGGTCCCTACGCGTCTTGGGCGGCCACCGTGCGCCGCGCCAGCTGCCCCG
CCGCGCGATGTTCTCATTCCGGAGGGGAAGAACGTCTAGAACTCCTTCTGCTAAAAAATTAACAGATATAGGAA
TTCGAAGAATCTTTTCTCCAGAGCATGACATTTCCGGAAAAAGTGTAAAGGAAGTTTTTCCAAGAAGAAGTGATTCT
CTCATCACTCAGAATGGGAGAAAGCTGGAGAAGTAAGTAGGGAGGTTTGGGAAAAAGCTGGAAAAACAAGGACTGC
TTGGTGTCAATATTGCAGAGCATCTTGGTGGAAATTGGAGGGGATCTGTACTCCGCAGCTATTGTCTGGGAGGAGC
AAGCTTATTCAAATTGTTCAAGGCCAGGTTTTAGTATTCATTCAAGGTATTGTCATGTCCTATATTACAAACCATG
GCTCAGAAGAACAGATTAAGCACTTTATTCCCCAGATGACTGCAGGCAAATGTATTGGTGCAATAGCAATGACAG
AGCCTGGAGCTGGAAGTGACTTACAGGGAATAAAAACAAATGCTAAAAAGGATGGAAGTGACTGGATTCTCAATG
GAAGCAAGGTGTTTCATCAGTAATGGGTCATTAAAGTGATGTTGTGATTGTAGTTGCGGTACAAATCATGAAGCTC
CCTCCCCTGCCCATTGGTATTAGCCTTTTTCTGGTGGAAAATGGAATGAAAGGATTTATCAAGGGACGAAAGCTAC
ATAAAATGGGATTAAGAGCCCAGGATACCGCAGAACTATTCTTTGAAGATATACGGTTGCCAGCTAGTGCCCTAC
TTGGAGAAGAGAATAAAGGCTTCTATTACATCATGAAAGAGCTTCCACAGGAAAGGCTGTTAATTGCTGATGTGG
CAATTTCACTAGTGAATTCATGTTGAAGAAACCAGGAACATGTTAAACAAAGAAAAAGCTTTTGGCAAAACAG
TTGCTCACCTACAGACAGTGCAACATAAATTAGCAGAATTAAAAAACACATATATGTGTAACCCGAGCATTTGTGG
ACAACGTCTCCAGCTGCATGAAGCGAAACGTTTGGACTCCGCCACTGCTTGCATGGCGAAATATTGGGCATCTG
AGTTACAAAATAGTGTAGCTTACGACTGTGTACAGCTCCATGGAGGTTGGGGATACATGTGGGAGTACCCAAATTG
CAAAAGCTTATGTGGATGCCAGAGTTCAGCCAATCTATGGTGGTACAAATGAAATAATGAAGGAGCTGATTGCAA
GAGAGATTGTCTTTGACAAGTAGACATCTGCCCACATCCTGGAGTCCCTATTACAGCTAATCTCGTTTTAAATCTG
CTCAAGATAAAATGTAACCTTGGAAAGCGAGGAAACACTAAACATGTTTTTACCTGCTCTCTCTATAGAGAAGGAA
ATAAAATATAAATATAAGATTAACACAGTGGAAGGACAAATCTTTGAAGCCAAAATTCTAGTTTTCCAATATAAG
GTTTAACTTACAGTTTTTTTATGTAGCCAAAGGTAAACGGTTTTCTGAATCTTGCCTAGGTGTTTCATTATCTCT
AAAATTCTAAAAAGCATAAATCATTCAAATCTTCAAACCAAGGCAGAAATAATTTTATGTCGCTATAGTATAAAA
ACATTAATAAGATAGCACATTGACTTTTAAAGGGAAAAGTAAATATAACTTAGCATGTAAACTCATTTCGGCTAC
CATTGCTCCAAATTCCTTAGAACAGTGTTTTTACCCTGTACTCCAACCCCGTTTTTAAGCAATGGAACCTCTT
TCTTCAAACAAAAGCTTATGCAGAACATCTCTGTGAAACGCTGCTGAGTGAGAAGTCTTTCATTGAAGCTGGAA
GCCATCATACCTTACTGCCTTGAACCCCTAGGACTCAGCTAAGTATTTGCCTAACCCCTGACCAGGGAATGCCTT
GGTTCTGTCAATTGCTGACATCTGAGAACACAGAATAATCCATCATTTTTTAATTTCAAGATATTGGTACATTTTA
TAGGTATCAAAGCAATGGCTTTTCTTTTGAACAGTTAATGTATTTATTAACCTAATAATTACTTTATGTCTTCT
ATAAACAGGCTGTTAATACAATGATGACAAACAAAAGTGGCAAGATCACTAAAAAATAAGTGAATAAACAAATA
AGTAGTAAATAAGGTAAGAAGTAAATATGTAAAAGAGATAA

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FIGURE 604

MAARLLRGSLRVLGGHRAPRQLPAARCSHSGGEERLETPSAKKLT DIGIRRIF SPEHDIFRKSVRKFFQEEVIPH
HSEWEKAGEVSREVWEKAGKQGLLGVNIAEHLGGIGGDLYSAAIVWEEQAYSNC SGPGFSIHSGIVMSYITNHGS
EEQIKHFIPQMTAGKCIGAIAMTEPGAGSDLQGIKTNAKKDGSDWILNGSKVFI SNGSLSDVVIVVAVTNHEAPS
PAHGISLFLVENGMGFIKGRKLHKMGLKAQDTAELFFEDIRLPASALLGEENKGFYIIMKELPQERLLIADVAI
SASEFMFEETRNYVKQRKAFGKTV AHLQTVQHKLAELKTHICVTRAFVDNCLQLHEAKRLDSATACMAKYWASEL
QNSVAYDCVQLHGGWGYMWEYP IAKAYVDARVQPIYGGTNEIMKELIAREIVFDK

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FIGURE 605

ATCCTACGGGCCACGCCTGGGCCCTTGCTGCCAGGAAGCTTCGGCCCCGCAGCTCGGCTTGCTGCGGTCTCAGGTT
TCTTTACCTCCGGAAAGAAGAATATTGGCCCCCTTGAATTCCTGGAAGTTCATTGAAGAGTCTGAAATTAGGGACTT
ATTTCAAATTTGGACATGCTAGTCGAGGCGCAACAAGACCCAACGGGCCAAATACTGGAAATAAAATATGCCAG
TTCAAAC TAGTACTTCTGGGAGAGTCCGCTGTTGGCAAATCAAGCCTAGTGCTTCGTTTTGTGAAAGGCCAATTT
CATGAATTTCAAGAGAGTACCATTGGGGCTGCTTTTCTAACCCAACTGTATGTCTTGATGACACTACAGTAAAG
TTTGAAATATGGGATACAGCTGGTCAAGAACGATACCATAGCCTAGCACCAATGTACTACAGAGGAGCACAAGCA
GCCATAGTTGTATATGATATCACAAATGAGGAGTCCTTTGCAAGAGCAAAAAATTGGGTAAAGAACTTCAGAGG
CAAGCAAGTCCTAACATTGTAATAGCTTTATCGGGAAACAAGGCCGACCTAGCAAATAAAAGAGCAGTAGATTTC
CAGGAAGCACAGTCCTATGCAGATGACAATAGTTTATTATTTCATGGAGACATCCGCTAAAACATCAATGAATGTA
AATGAAATATTCATGGCAATAGCTAAAAAATTGCCAAAGAATGAACCACAAAATCCAGGAGCAAATTCTGCCAGA
GGAAGAGGAGTAGACCTTACCGAACCACACAACCAACCAGGAATCAGTGTTGTAGTAACATAACCTCTAGTTTG
AACTAGCTGGAATAGTCTTCTGCTTCCTAAATGTTAATAACAATGGAATTGGAGCATTTAACCAGCCCAGTATGA
CTTCCAAAAGAAGAGACTTATGATAGAGTCAAGTTTCTAATACAGAATTATTTTAAAGTGTTTTGAACCTAATTTT
TAATAACATGCATGGGTCCCTCTCACTAATGTTTCAACAATAGGGAAAAATGAGAACTATGTGGACACTTGTTTT
ATTGGAAGGTTAGGGGGAATAATTTCTCATCACTAGGAATATAGACAAATGACTGTCTGGGCCCACACAGTTAAC
CAGCCCATTTCTCCACACTGGTACAGTAGTCACCTGTGAAAAAAAAAATTGGAACCTACTAATTTGGGCTTTTCA
AAAACATTTCTTTGTTTAGAAGGAGATTCTAAAGTTATTTATGATGCTTAGCCATAGTATTCAGGCAAATGTTTCAT
TTCTCCTGGTACCTGTATTTAAATGTACATTCCACATTTTAATAAATTAACCACAAGAAAATAATCCACATAT
ACAAGGTCAGGGGTGGGGAAGAGTATTAATGGTATCTTAATTATACCCAGTCTGGTTTTTTTTTTTAAATGGGGT
AAAAATCAAATGCAACCCCATCTTGTTTTAGGAATTTTGAGAACTAATAAATGCACCTTAATGGTCAGTGTTCCCT
TTCAAACATGTGAGTTCTTTAACAAAAATGAAATAAACCAGGTGTCTGTGATTTCTAATTAATCACCGCTGGCCA
TTACACAGGTTTTGTTGTTGGGGTGGGAGGGGGCTTTTGTTCCCTTTTGACATAATATAGTCAATGCACTAAC
AATTATGTATATTCAAACCTTGATTATTTTAAATTCGATCTTCAGCTGTACTGTAAATAGGGTACTGCATTGTAGT
CTCCATATCTGTATTACTTTTCTGTAATATTTAAGAGTTGCTTAAAAGCATACAAAATGTACTGTTACTAAAACA
GCTAATTATTTCTCTCTCCCCCTTTGACAGGAAGGGGCTTCAGTTGTTCTCCATGGCTAGAACCATAATAAACA
ATGTACCCGTAATTTGTAACATAAAGTATTGCAATATGTTAGTAACAATCTTGCAGCCTTCCTTTCCAAAGTTCA
TTTTATTTTGATCAGTTCAGTATATTGCACTAATTATTTTAGGTATTTTCATTATATGAAAGCTACCATGTGTCA
GAGATGATTTAATCTATTTAAGTGTTGGACTGCTAGGAGAACTTGTACATTTATGATAATGCAGAATTAGGAAAA
CGGTTACCAGTGTTTAGTTTTATATTGAGGTGCTCAGGTTGGAATAAAGTGGTATAAAAAGCAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 606

MASRGATRPNGPNTGNKICQFKLVLLGESAVGKSSLVLRVKGQFHEFQESTIGAAFLTQTVCLDDTTVKFEIWD
TAGQERYHSLAPMYRGAQAAIVVYDITNEESFARAKNWVKELQRQASPNIVIALSGNKADLANKRAVDFQEAQS
YADDNSLLFMETSAKTS MNVNEIFMAIAKKLPKNEPQNP GANSARGRGVDLTEPTQPTRNQCCSN

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FIGURE 607

GTTCCCAGAAGCTCCCCAGGCTCTAGTGCAGGAGGAGAAGGAGGAGGAGCAGGAGGTGGAGATTCCCAGTTAAAA
GGCTCCAGAATCGTGTACCAGGCAGAGAACTGAAGTACTGGGGCCTCCTCCACTGGGTCCGAATCAGTAGGTGAC
CCCGCCCCTGGATTCTGGAAGACCTCACCATGGGACGCCCCCGACCTCGTGCGGCCAAGACGTGGATGTTCTCTGC
TCTTGCTGGGGGGAGCCTGGGCAGGACACTCCAGGGCACAGGAGGACAAGGTGCTGGGGGGTTCATGAGTGCCAAAC
CCCATTGCGAGCCTTGGCAGGCGGCCTTGTTCCAGGGCCAGCAACTACTCTGTGGCGGTGTCCTTGTTAGGTGGCA
ACTGGGTCTTTACAGCTGCCCCACTGTAAAAAACCGAAATACACAGTACGCCTGGGAGACCACAGCCTACAGAATA
AAGATGGCCCAGAGCAAGAAATACCTGTGGTTTCACTCCATCCCACACCCCTGCTACAACAGCAGCGATGTGGAGG
ACCACAACCATGATCTGATGCTTCTTCAACTGCGTGACCAGGCATCCCTGGGGTCCAAAGTGAAGCCCATCAGCC
TGGCAGATCATTGCACCCAGCCTGGCCAGAAGTGCACCGTCTCAGGCTGGGGCACTGTCAACAGTCCCCGAGAGA
ATTTTCCTGACACTCTCAACTGTGCAGAAAGTAAAAATCTTTCCCCAGAAGAAGTGTGAGGATGCTTACCCGGGGC
AGATCACAGATGGCATGGTCTGTGCAGGCAGCAGCAAAGGGGGCTGACACGTGCCAGGGCGATTCTGGAGGCCCCC
TGGTGTGTGATGGTGCACCTCCAGGGCATCACATCCTGGGGCTCAGACCCCTGTGGGAGGTCCGACAAACCTGGCG
TCTATACCAACATCTGCCGCTACCTGGACTGGATCAAGAAGATCATAGGCAGCAAGGGCTGGATTCTAGGATAAGC
ACTAGATCTCCCTTAATAAACTCACAACCTCTCTGGTTC

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FIGURE 608

MGRPRPRAAKTWMFLLLLGGAWAGHSRAQEDKVLGGHECQPHSQPWQAALFQGQQLLCGGVLVGGNWWLTAAHCK
KPKYTVRLGDHSLQNKDGPEQEIPVVQSIPHPCYNSSDVEDHNHDLMLLQLRDQASLGSKVKPISLADHCTQPGQ
KCTVSGWGTVTSPRENFDTLNCAEVKIFPQKKCEDAYPGQITDGMVCAGSSKGADTCQDSSGGPLVCDGALQGI
TSWGSDPCGRSDKPGVYTNICRYLDWIKKIIGSKG

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FIGURE 609

ATGGAAGGAGACTTCTCGGTGTGCAGGAACTGTAAAAGACATGTAGTCTCTGCCAACTTCACCCCTCCATGAGGCT
TACTGCCTGCGGTTCTTGGTCCTGTGTCCGGAGTGTGAGGAGCCTGTCCCAAGGAAACCATGGAGGAGCACTGC
AAGCTTGAGCACCAGCAGGTTGGGTGTACGATGTGTCTCAGCAGAGCATGCAGAAGTCCTCGCTGGAGTTTCATAAG
GCCAATGAGTGCCAGGAGCGCCCTGTTGAGTGTAAGTTCTGCAAACCTGGACATGCAGCTCAGCAAGCTGGAGCTC
CACGAGTCCTACTGTGGCAGCCGGACAGAGCTCTGCCAAGGCTGTGGCCAGTTCATCATGCACCGCATGCTCGCC
CAGCACAGAGATGTCTGTCTCGGAGTGAACAGGCCAGCTCGGGAAAGGGGAAAGAATTTTCAGCTCCTGAAAGGGAA
ATCTACTGTCTATTATTGCAACCAAATGATTCCAGAAAATAAGTATTTCCACCATATGGGTAAATGTTGTCCAGAC
TCAGAGTTTAAAGAAACACTTTCCTGTTGGAAATCCAGAAATTCCTTCCTTCATCTCTTCCAAGTCAAGCTGCTGAA
AATCAAACCTCCACGATGGAGAAAGATGTTTCGTCCAAAGACAAGAAGTATAAACAGATTTCTCTTCATTCTGAA
AGTTCATCAAAGAAAGCACCAAGAAGCAAAAACAAAACCTTGATCCACTTTTGATGTCAGAGCCCCAAGCCCAGG
ACCAGCTCCCCTAGAGGAGATAAAGCAGCCTATGACATTCTGAGGAGATGTTCTCAGTGTGGCATCCTGCTTCCC
CTGCCGATCCTAAATCAACATCAGGAGAAATGCCGGTGGTTAGCTTCATCAAAAAGGAAAAACAAGTGAGAAATTT
CAGCTAGATTTGGAAAAGGAAAGGTACTACAAATTCAAAGATTTCACTTTTTAACACTGGCATTCTGCTACTT
GCTGTGGTGGTCTTGTGAAAGGTGATGGGTTTTATTCTGTTGGGCTTTAAAAGAAAAGGTTTGGCAGAACTAAAA
CAAACCTCACGTATCATCTCAATAGATACAGAAAAGGCTTTTGATAAAATTCAACTTGACTTCATGTTAAAAACC
CTCAACAAACCAGGCGTCGAAGGAACATACCTCAAATAATAAGAGCCATCTATGACAAAACACAGCCAACATC
ATACTGAATGAGCAAAAGCTGGAGCATTACTCTTGAGAAGTAGAACAAGGCACCTTCAGTCCTATTCAACATAGTA
CTGGAAGTCTCGCCACAGCAATCAGGCAAGAGAAAGAAGTAAAAGGCACCC

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FIGURE 610

MEGDFSVCNRNCKRHVVSANFTLHEAYCLRFLVLCPECEEPVPKETMEEHCKLEHQVVGCTMCQQSMQKSSLEFHK
ANECQERPVECKFCKLDMQLSKLELHESYCGSRTELCQGCQGFIMHRMLAQHRDVCRSEQAQLGKGERISAPERE
IYCHYCNQMIPENKYFHHMGKCCPDSEFKKHFPVGNPEILPSSLPSQAAENQTSTMEKDVRPKTRSINRFPLHSE
SSSKAPRSKNKTLDPLLMEPKPTSSPRGDKAAYDILRRCSQCGILLPLPILNQHQEKCRWLASSKRKTSEKF
QLDLEKERYYYKFRFHF

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FIGURE 611

GAGAAATTGGAGAAGATAAACTGGACACTGGGGAGACCACAACTTCATCCTGCGTGGGATCTCCCAGCTACCTG
CAGTGGCCACCATGTCTTGGGTCCTGCTGCCTGTACTTTGGCTCATTGTTCAAACCTCAAGCAATAGCCATAAAGC
AAACACCTGAATTAACGCTCCATGAAATAGTTTGTCTTAAAAAACTTCACATTTTACACAAAAGAGAGATCAAGA
ACAACCAGACAGAAAAGCATGGCAAAGAGGAAAGGTATGAACCTGAAGTTCAATATCAGATGATCTTAAATGGAG
AAGAAATCATTTCTCTCCCTACAAAAACCAAGCACCTCCTGGGGCCAGACTACACTGAAACATTGTACTCACCCA
GAGGAGAGGAAATTACCACGAAACCTGAGAACATGGAACACTGTTACTATAAAAGGAAACATCCTAAATGAAAAGA
ATTCTGTTGCCAGCATCAGTACTTGTGACGGGTTGAGAGGATACTTCACACATCATCACCAAAGATACCAGATAA
AACCTCTGAAAAGCACAGACGAGAAAGAACATGCCGTCTTTACATCTAACCAGGAGGAACAAGACCCAGCTAACCC
ACACATGTGGTGTGAAGAGCACTGACGGGAAACAAGGCCCAATTCGAATCTCTAGATCACTCAAAGCCCAGAGA
AAGAAGACTTTCTTCGGGCACAGAAATACATTGATCTCTATTTGGTGCTGGATAATGCCTTTTATAAGAACTATA
ATGAGAATCTAACTCTGATAAGAAGCTTTGTGTTTGATGTGATGAACCTACTCAATGTGATATATAACACCATAG
ATGTTCAAGTGGCCTTGGTAGGTATGGAAATCTGGTCTGATGGGGATAAGATAAAGGTGGTGGCCAGCGCAAGCA
CCACGTTTGACAACTTCCTGAGATGGCACAGTTCTAACCTGGGGAAAAAGATCCACGACCATGCTCAGCTTCTCA
GCGGGATTAGCTTCAACAATCGACGTGTGGGACTGGCAGCTTCAAATTCCTTGTGTTCCCCATCTTCGGTTGCTG
TTATTGAGGCTAAAAAAAAGAATAATGTGGCTCTTGTAGGAGTGATGTCACATGAGCTGGGCCATGTCCTTGGTA
TGCCTGATGTTCCATTCAACACCAAGTGTCCTCTGGCAGTTGTGTGATGAATCAGTATCTGAGTTCAAATTC
CAAAGGATTTCAGTACATCTTGCCGTGCACATTTTGAAAGATACCTTTTATCTCAGAAACCAAAGTGCCTGCTGC
AAGCACCTATTCTTACAAATATAATGACAACACCAGTGTTGTGGGAACCACTTCTAGAAGTGGGAGAAGACTGTG
ATTGTGGCTCTCCTAAGGAGTGTAACCAATCTCTGCTGTGAAGCCCTAACGTGTAACTGAAGCCTGGAAGTATT
GCGGAGGAGATGCTCCAAACCATAACCACAGAGTGAATCCAAAAGTCTGCTTCACTGAGATGCTACCTTGCCAGGA
CAAGAACCAAGAACTCTAACTGTCCCAGGAATCTTGTGAATTTTACCCATAATGGTCTTTTCACTTGTCAATTCTA
CTTTCTATATTGTTATCAGTCCAGGAAACAGGTAAACAGATGTAATTAGAGACATTGGCTCTTTGTTTAGGCCTA
ATCTTTCTTTTACTTTTTTTTTTTCTTTTTTTCTTTTTTTTAAAGATCATGAATTTGTGACTTAGTTCTGCCCTT
TGGAGAACAAAAGAAAGCAGTCTTCCATCAAATCACCTTAAAATGCACGGCTAAACTATTCAAGTAAACACTCC
AGAATTGTTAAATTACAAGTACTATGCTTTAATGCTTCTTTTATCTTACTAGTATGGCCTATAAAAAAATAATA
CCACTTGATGGGTGAAGGCTTTGGCAATAGAAAGAAGAATAGAATTCAGGTTTTATGTTATTCCTCTGTGTTTAC
TTCGCTTGCTCTTGAAAGTGCAGTATTTTTCTACATCATGTGAGAAATGATTCAATGTAAATATTTTTCATTTT
ATCATGTATATCCTATACACACATCTCCTTCATCATCATATATGAAGTTTATTTTGAGAAAGTCTACATTGCTTAC
ATTTTAATTGAGCCAGCAAAGAAGGCTTAATGATTTATTGAACCATAATGTCAATAAAAAACAACTTTTGAGGC

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FIGURE 612

MLRGISQLPAVATMSWVLLPVLWLIVQTQAIAIAIKQTPELTLEIVCPKKLHILHKREIKNNQTEKHGKEERYEPE
VQYQMILNGEEIILSLQTKHLLGPDYTETLYSPRGEEITTKPENMEHCYYKGNILNEKNSVASISTCDGLRGYF
THHHQRYQIKPLKSTDEKEHAVFTSNQEEQDPANHTCGVKSTDGKQGPIRISRSLKSPEKEDFLRAQKYIDLVLV
LDNAFYKNYNENLTLIRSFVFDVMNLLNVIYNTIDVQVALVGMEIWSGDGDIKVVPSASTTFDNFLRWHSSNLGK
KIHDAQLLSGISFNRRVGLAASNLCSPSSVAVIEAKKKNNVALVGVMSELGHVVGMPDVPFNTKCPSGSCV
MNQYLSSKFPKDFSTSCRAHFERYLLSQPKCLLQAPIPTNIMTTPVCGNHLLEVGEDCDCGSPKECTNLCCEAL
TCKLKPGTDCGGDAPNHTTE

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FIGURE 613

GGCACCAGGTCTCCCAAGGCTTCCTCAGCGTCGACGCCGGGGAGCGCCCTGGGGTTGGGAGCGCCCGGGGCCCCGCG
AAGGAGGAGGTGGCTCAGGTGT CAGGGCGCACCGTGGGAACCGGCCCGGGGAGGCGTGGAACGCGGGGCCTG
GGACTCGACCAGCCTCTCCCGTGC GGATCGCAAAATCTCGGAGCTGAAACAGCCCGTTGTTTCGACGCTCCCTCT
GACCCGCCACCCTGCACATTGTTTTCCATTGCCCCGGGTGCGGGGTGGGAGGAGAGGCACGCCGGGGTTCTGGAG
CTTGGCCGCGCGCCAGGCTTGTGGCCTTCGTCCCCCTGGGGCCACTGGGGCGGCCACGCCTCTCCGGCGGGAGGA
GAGAACGCGTGGGTCCGGGTGGCTGCTCCGGCCCTTCGCGCTCCAGCTCGGCCATGGGGTTCGCGCAGCTCCCACG
CCGCGGTCAATCCCGACGGGGACAGTATTCGGCGAGAGACCGGCTTCTCCCAAGCCAGCCTGCTCCGCCTGCACC
ACCGGTTCCGGGCACTGGACAGGAATAAGAAGGGCTACCTGAGCCGCATGGATCTCCAGCAGATAGGGGCGCTCG
CCGTGAACCCCTGGGAGACCGAATTATAGAAAGCTTCTTCCCCGATGGGAGCCAGCGAGTGGATTTCACAGGCT
TTGT CAGGGTCTTGGCTCATTTTCGCCCTGTAGAAGATGAGGACACAGAAACCCAAGACCCCAAGAAACCTGAAC
CTCTCAACAGCAGAAGGAACAAACTTCACTATGCATTT CAGCTCTATGACCTGGATCGCGATGGGAAGATCTCCA
GGCATGAGATGCTGCAGGTTCTCCGTCTGATGGTTGGGGTACAGGTGACAGAAGAGCAGCTGGAGAACATCGCTG
ACCGCACGGTGCAGGAGGCTGATGAAGATGGGGATGGGGCTGTGTCTTTCGTGGAGTTCACCAAGTCCCTTAGAGA
AGATGGACGTTGAGCAAAAAATGAGCATCCGGATCCTGAAGTGACTCCGTTTTGTGCCTTGGGCTTGCTCCTGCAA
CCAGTATCTCCTTGGAATTCATCCAAAGCCCCCATGGACGCATGGACGCAGGGCGACAATAAACTGTATTTTCGT
TTCTAACTCTATTTAGGGCCAAGAGAAGAAAGCTGGAAGGATGTGTACTAAAGTCTAGCTCAGCAGTCCCCAACCC
TTTTTGGCATCAGGGACAGTTTTTCCACGGATGGGTGACAGGGGATGGTTTTTGGGATGATTCAAGTGCATTACAT
TTATTGTGCACTTTATTTCTATTATGATTACATTGTAATATATAATGAAATAATTATACAACCTACCATAATGTA
GAATCAGCAGGAGCCCTGAGCTTGTTTTCTTGCAATTAGACGGTCCCATATGGGAGTGATGGGAGACAGTGACAG
ATCATCAGGCATTAGATTCTCATAAGGAGTGCACAATCTAGATCCTTTGGTGTGCAGTTCACAGTAGGATTTGGG
CTCCTATGATAATCTAATGCCACTGCTGATCTGACAGGAGGCAGAGCTCAGGCGGTAATGCAAGCAATGGGGAGT
GGCTGTAAATATAGATGAAGCTTCAGCTCGCCTGCCGCTCACCTTGTGCTGTGCAGCCCGGTTCTAACAGACCA
CAGACCCACACCAGGTCTATCTCATTGGTCTCAGAGCTGTGAATCAGCCAGCAATATTTTAGTTGCAAATCAC
TGAAAACCCAACTCAAAGTGACTTAAGTCAGAAAGAAATTTTATGAATTCAGGTAATTA AAAAGTCCAGAAGTAT
CTGGCTTTAGGCACAGCTGGATCCAAGGGCACAAATGATGTCATCAGGCTCCAGTTATTCTCCATCTCCAGCTC
AGCTTTTTCTGTCTGTAAGCCTGATTTTCAGGAAGGCTCTTTCTAGTGATGGAGATGACCACCATCAGCTCCAG
GCTTCTATCCTGCTAACCAGTAACCAGTGGGAAGAGATTTACTTATTCCAATAATTCCAAGTGGAGAGTGTCA
TTGACCCGTTTGGGGTCTCATCTCTACTTCTAGGGGAATGAAACACTTTGAGTGGCCAGGCCTGTGTCATGTGCT
AATTCTAGAGCCAGGGAAATAAGGTCTGAGGATT CAGGATGGGGTGAAAGGTGGTTGCTTAAAGGAAAATGAAA
TACAATTAGCAGAATAAGGGGAAACGAGTGGTCTGCTCTGCTCGGGCAAAACAAGAGATGCCCATTA CTGTGAGG
GACCTTGAAGTCTGGACTCTTAAATGGGTTTTTGTGATTTCCTGGGTGCATGCTAGGATGATGGGGCTTGATG
CAGTAGGGAAGAGACGATGTAAAAATAATAACAATATATACCTTCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 614

MGSRSSHAÄVIPDGDSIRRETGF SQASLLRLHHRFRALDRNKKGYLSRMDLQQIGALAVNPLGDRIIESFFPDGS
QRVDFPGFVRVLAHFRPVEDEDTETQDPKKPEPLNSRRNKLHYAFQLYDLDRDGKISRHEMLQVLRLMVG VQVTE
EQLENIADRTVQEADEDGDGAVSFVEFTKSLEKMDVEQKMSIRILK

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FIGURE 615A

ACCTAAAACCTTGCAAGTTCAGGAAGAAACCATCTGCATCCATATTGAAAACCTGACACAATGTATGCAGCAGGC
TCAGTGTGAGTGAAGTGGAGGCTTCTCTACAACATGACCCAAAGGAGCATTGCAGGTCTTATTTGCAACCTGAAG
TTTGTGACTCTCCTGGTTGCCTTAAGTTCAGAACTCCCATTCTGGGAGCTGGAGTACAGCTTCAAGACAATGGG
TATAATGGATTGCTCATTGCAATTAATCCTCAGGTACCTGAGAATCAGAACCTCATCTCAAACATTAAGGAAATG
ATAACTGAAGCTTCATTTTACCTATTTAATGCTACCAAGAGAAGAGTATTTTTTCAGAAAATATAAAGATTTTAATA
CCTGCCACATGGAAAGCTAATAATAACAGCAAAATAAAACAAGAATCATATGAAAAGGCCAAATGTCATAGTGACT
GACTGGTATGGGGCACATGGAGATGATCCATACACCCTACAATACAGAGGGTGTGGAAAAGAGGGAAAATACATT
CATTTACACCTAATTTCTACTGAATGATAACTTAACAGCTGGCTACGGATCACGAGGCCGAGTGTTTGTCCAT
GAATGGGCCCACCTCCGTTGGGGTGTGTTTCGATGAGTATAACAATGACAAACCTTTCTACATAAATGGGCAAAAT
CAAATTAAAGTGACAAGGTGTTTCATCTGACATCACAGGCATTTTTTGTGTGTGAAAAGGTCTTGGCCCCAAGAA
AACTGTATTATTAGTAAGCTTTTTTAAAGAAGGATGCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCA
ATAATGTTTCATGCAAAGTTTATCTTCTGTGGTTGAATTTTGTAAATGCAAGTACCCACAACCAAGAAGCACCAAAC
CTACAGAACCAGATGTGCAGCCTCAGAAGTGCATGGGATGTAATCACAGACTCTGCTGACTTTCACCACAGCTTT
CCCATGAATGGGACTGAGCTTCCACCTCCTCCACATTCTCGCTTGTACAGGCTGGTGACAAAGTGGTCTGTTTA
GTGCTGGATGTGTCCAGCAAGATGGCAGAGGCTGACAGACTCCTTCAACTACAACAAGCCGAGAAATTTTATTG
ATGCAGATTGTTGAAATTCATACCTTCGTGGGCATTGCCAGTTTCGACAGCAAAGGAGAGATCAGAGCCCAGCTA
CACCAAATTAACAGCAATGATGATCGAAAGTTGCTGGTTTCATATCTGCCACCCTGTATCAGCTAAAACAGAC
ATCAGCATTTGTTTCAGGGCTTAAGAAAGGATTTGAGGTGGTTGAAAACCTGAATGAAAAGCTTATGGCTCTGTG
ATGATATTAGTGACCAGCGGAGATGATAAGCTTCTTGGCAATTGCTTACCCACTGTGCTCAGCAGTGGTTCAACA
ATTCACTCCATTGCCCTGGGTTTCATCTGCAGCCCCAAATCTGGAGGAATTATCAGTCTTACAGGAGGTTTAAAG
TTCTTTGTTCCAGATATATCAAACCTCCAATAGCATGATTGATGCTTTCAGTAGAATTTCTCTGGAAGTGGAGAC
ATTTTCCAGCAACATATTAGCTTGAAAGTACAGGTGAAAATGTCAAACCTCACCATCAATTGAAAACACAGTG
ACTGTGGATAATACTGTGGGCAACGACACTATGTTTCTAGTTACGTGGCAGGCCAGTGGTCTCTCTGAGATTATA
TTATTTGATCCTGATGGACGAAAATACTACACAATAATTTTATCACCATCTAACTTTTCGGACAGCTAGTCTT
TGGATTCCAGGAACAGCTAAGCCTGGGCACTGGACTTACACCCTGAACAATACCCATCATTTCTCTGCAAGCCCTG
AAAGTGACAGTGACCTCTCGCGCTCCAACCTCAGCTGTGCCCCAGCCACTGTGGAAGCCTTTGTGGAAGAGAC
AGCCTCCATTTTCTCATCTGTGATGATTTATGCCAATGTGAAACAGGGATTTTATCCCATTCTTAATGCCACT
GTCAGTCCACAGTTGAGCCAGAGACTGGAGATCCTGTTACGCTGAGACTCCTTGATGATGGAGCAGGTGCTGAT
GTTATAAAAAATGATGGAATTTACTCGAGGTATTTTTTCTCTTTGCTGCAAATGGTAGATATAGCTTGAAAGTG
CATGTCAATCACTCTCCAGCATAAGCACCCAGCCACTCTATTCCAGGGAGTCATGCTATGTATGTACCAGGT
TACACAGCAAACGGTAATATTAGATGAATGCTCCAAGGAAATCAGTAGGCAGAAATGAGGAGGAGCGAAAGTGG
GGCTTTAGCCGAGTCAGCTCAGGAGGCTCCTTTTCAGTGTGGGAGTTCCAGCTGGCCCCCACCCTGATGTGTTT
CCACCATGCAAAATTATTGACCTGGAAGCTGTAAAGTAGAAGAGGAATTGACCCTATCTTGGACAGCACCTGGA
GAAGACTTTGATCAGGGCCAGGCTACAAGCTATGAAATAAGAATGAGTAAAAGTCTACAGAATATCCAAGATGAC
TTTAACAATGCTATTTTAGTAAATACATCAAAGCGAAATCCTCAGCAAGCTGGCATCAGGGAGATATTTACGTTT
TCACCCAGATTTCCACGAATGGACCTGAACATCAGCCAAATGGAGAAACACATGAAAGCCACAGAATTTATGTT
GCAATACGAGCAATGGATAGGAACTCCTTACAGTCTGCTGTATCTAACATTGCCAGGCGCCTCTGTTTATTCCC
CCCAATTCTGATCCTGTACCTGCCAGAGATTATCTTATATTGAAAGGAGTTTTTAACAGCAATGGGTTTGATAGGA
ATCATTGCTTATTATAGTTGTGACACATCATACTTTAAGCAGGAAAAAGAGAGCAGACAAGAAAGAGAATGGA
ACAAAATTATTATAATAATAATATCCAAAGTGTCTTCTTCTTAGATATAAGACCCATGGCCTTCGACTACAAAA
CATACTAACAAAGTCAAATTAACATCAAACTGTATTAAATGCATTGAGTTTTTGTACAATACAGATAAGATTT
TTACATGGTAGATCAACAATTCTTTTGGGGGTAGATTAGAAAACCCTTACACTTTGGCTATGAACAAATAATAA
AAATTATTCTTTAAAGTAATGTCTTTAAAGGCAAAGGGAAGGGTAAAGTCGGACCAGTGTCAAGGAAAGTTTGT
TTATTGAGGTGAAAAATAGCCCCAAGCAGAGAAAAGGAGGGTAGGTCTGCATTATAACTGTCTGTGTGAAGCAA
TCATTTAGTTACTTTGATTAATTTTCTTTTCTCCTTATCTGTGCAGAACAGGTTGCTTGTTTACAACCTGAAGAT
CATGCTATATTTTATATATGAAGCCCCAATGCAAAGCTCTTACCTCTTGCTATTTTGTATATATATTACAGA
TGAAATCTCACTGCTAATGCTCAGAGATCTTTTTTCACTGTAAGAGGTAACCTTTAACAATATGGGTATTACCTT
TGTCTCTTCATACCGGTTTTATGACAAAGGTCTATTGAATTTATTGTTTGTAAAGTTTCTACTCCCATCAAAGCA

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FIGURE 615B

GCCTTCTAAGTTAATTGCCTTGGTTATTATGGATGATAGTTATAGCCCTTATAATGCCTTACCTAGGAAA

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FIGURE 616

MTQRSIAGPICNLKFVTLTLLVALSSELPFLGAGVQLQDNGYNGLLIAINPQVPENQNLISNIKEMITEASFYLFNA
TKRRVFFRNILIPATWKANNNSKIKQESYEKANVIVTDWYGAHGDDPYTLQYRGCCKEGKYIHFTPNFLLNDN
LTAGYGSRGVRFVHEWAHLRWGVFDEYNNDKPFYINGQNQIKVTRCSSDITGIFVCEKGPCPQENCIISKLFKEG
CTFIYNSTQNATASIMFMQSLSSVVEFCNASTHNQEAPNLQNMCSLRSABWDVITDSADFHHSFPMNGTELPPPP
TFSLVQAGDKVVCLVLDVSSKMAEADRLQLQQAEEFYLMQIVEIHTFVGIASFDSKGEIRAQLHQINSNDDRKL
LVSYPPTTVSAKTDISICSGLKKGFVVEKLNKAYGSVMILVTSGDDKLLGNCLPTVLSSGSTIHSIALGSSAA
PNLEELSRLTGGLKFFVPDISNSNSMIDAFSRISSTGDIQQHIQLESTGENVKPHHQLKNTVTVDNTVGNNDTM
FLVTWQASGPPEIILFDPDGRKYYTNNFITNLTFRTASLWIPGTAKPGHWYTLNNTTHSLQALKVTVTSRASNS
AVPPATVEAFVERDSLHFPFVMIYANVKQGFYPILNATVTATVEPETGDPVTLRLLDDGAGADVIKNDGIYSRY
FFSFAANGRYSLKVHVNHSPSISTPAHSIPGSHAMYVPGYTANGNIQMNAPRKSVGRNEEERKWGFSRVSSGGSF
SVLGVPAGPHPDVFPCKIIDLEAVKVEEELTSLWTAPGEDFDQGGQATSYEIRMSKSLQNIQDDFNAILVNTSK
RNPQQAGIREIFTFSPQISTNGPEHQPNGETHESHRIYVAIRAMDRNSLQSAVSNIQAAPLFIPPNSDPVPARDY
LILKGVLTAAGLIGIICLIIVVTHHTLSRKKRADKKENGTKLL

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FIGURE 617

TGTCACTGAGGGTTGACTGACTGGAGAGCTCAAGTGCAGCAAAGAGAAGTGTGAGAGCATGAGCGCCAAGTCCAG
AACCATAGGGATTATTGGAGCTCCTTTCTCAAAGGGACAGCCACGAGGAGGGGTGGAAGAAGGCCCTACAGTATT
GAGAAAGGCTGGTCTGCTTGAGAAACTTAAAGAACAAGAGTGTGATGTGAAGGATTATGGGGACCTGCCCTTTGC
TGACATCCCTAATGACAGTCCCTTTCAAATTGTGAAGAATCCAAGGTCTGTGGGAAAAGCAAGCGAGCAGCTGGC
TGGCAAGGTGGCAGAAGTCAAGAAGAACGGAAGAATCAGCCTGGTGTGGGCGGAGACCACAGTTTGGCAATTGG
AAGCATCTCTGGCCATGCCAGGGTCCACCCTGATCTTGGAGTCATCTGGGTGGATGCTCACACTGATATCAACAC
TCCACTGACAACCACAAGTGGAAACTTGCATGGACAACCTGTATCTTTCCTCCTGAAGGAAGTAAAAGGAAAAGAT
TCCCGATGTGCCAGGATTCTCCTGGGTGACTCCCTGTATATCTGCCAAGGATATTGTGTATATTGGCTTGAGAGA
CGTGGACCCTGGGGAACACTACATTTTGAAAACCTCTAGGCATTAAATACTTTTCAATGACTGAAGTGGACAGACT
AGGAATTGGCAAGGTGATGGAAGAAACACTCAGCTATCTACTAGGAAGAAAGAAAAGGCCAATTCATCTAAGTTT
TGATGTTGACGGACTGGACCCATCTTTCACACCAGCTACTGGCACACCAGTCGTGGGAGGTCTGACATACAGAGA
AGGTCTCTACATCACAGAAGAAATCTACAAAACAGGGCTACTCTCAGGATTAGATATAATGGAAGTGAACCCATC
CCTGGGGAAGACACCAGAAGAAGTAACTCGAACAGTGAACACAGCAGTTGCAATAACCTTGGCTTGTTTCGGACT
TGCTCGGGAGGGTAATCACAAAGCCTATTGACTACCTTAACCCACCTAAGTAAATGTGGAAACATCCGATATAAAT
CTCATAGTTAATGGCATAATTAGAAAGCTAATCATTTTCTTAAGCATAGAGTTATCCTTCTAAAGACTTGTTCTT
TCAGAAAAATGTTTTTCCAATTAGTATAAACTCTACAAATTCCCTCTTGGTGTAATAATCAAGATGTGGAAATTC
TAACTTTTTTGAAATTTAAAAGCTTATATTTTCTAACTTGGCAAAAGACTTATCCTTAGAAAGAGAAGTGTACAT
TGATTTCCAATTAAAAATTTGCTGGCATTAAAAATAAGCACACTTACATAAGCCCCCATACATAGAGTGGGACTC
TTGGAATCAGGAGACAAAGCTACCACATGTGGAAAGGTACTATGTGTCCATGTCAATTCAAAAAATGTGATTTTTT
ATAATAAACTCTTTATAACAAG

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FIGURE 618

MSAKSRTIGIIIGAPFSKGQPRGGVEEGPTVLRKAGLLEKLKEQECVKDYGDLPFADIPNDSPFQIVKNPRSVGK
ASEQLAGKVAEVKKNGRISLVLGGDHSLAIGSISGHARVHPDLGVIWVDAHTDINTPLTTTSGNLHGQPVSFLLK
ELKGKIPDVPGFVSWVTPCISAKDIVYIGLRDVPGEHYILKTLGIKYFSMTEVDRLGIGKVMEEETLSYLLGRKKR
PIHLSFDVDGLDPSFTPATGTPVVGGLTYREGLYITEEIIYKTGLLSGLDIMEVNPSLGKTPEEVTRTVNTAVAIT
LACFGLAREGNHKPIDYLNPPK

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FIGURE 619

CCGTGCAGTCCGAGATGGGCTCGTCTCGGGCACCCCTGGATGGGGCGTGTGGGTGGGCACGGGATGATGGCACTGC
TGCTGGCTGGTCTCCTCCTGCCAGGGACCTTGGCTAAGAGCATTGGCACCTTCTCAGACCCCTGTAAGGACCCCA
CGCGTATCACCTCCCCTAACGACCCCTGCCTCACTGGGAAGGGTGACTCCAGCGGCTTCAGTAGCTACAGTGGCT
CCAGCAGTTCTGGCAGCTCCATTTCAGTGCCAGAAGCTCTGGTGGTGGCTCCAGTGGTAGCTCCAGCGGATCCA
GCATTGCCCAGGGTGGTTCTGCAGGATCTTTTAAGCCAGGAACGGGGTATTCCCAGGTCAGCTACTCTCCGGAT
CTGGCTCTAGTCTACAAGGTGCATCCGGTTCCTCCCAGCTGGGGAGCAGCAGCTCTCACTCGGGAAGCAGCGGCT
CTCACTCGGGAAGCAGCAGCTCTCATTCGAGCAGCAGCAGCAGCTTTCAGTTCAGCAGCAGCAGCTTCCAAGTAG
GGAATGGCTCTGCTCTGCCAACCAATGACAACTCTTACCGCGGAATACTAAACCCTTCCCAGCCTGGACAAAAGCT
CTTCCTCTTCCCAAACCTCTGGGGTATCCAGCAGTGGCCAAAGCGTCAGCTCCAACCAGCGTCCCTGTAGTTCGG
ACATCCCCGACTCTCCCTGCAGTGGAGGGCCCATCGTCTCGCACTCTGGCCCCTACATCCCCAGCTCCCCTCTG
TGTCAGGGGGTTCAGAGGCCTGTGGTGGTGGTGGTGGACCAGCACGGTTCTGGTGGCCCTGGAGTGGTTCAAGGTC
CCCCCTGTAGCAATGGTGGCCTTCCAGGCAAGCCCTGTCCCCCAATCACCTCTGTAGACAAATCCTATGGTGGCT
ACGAGGTGGTGGGTGGCTCCTCTGACAGTTATCTGGTTCAGGCATGACCTACAGTAAGGGTAAATCTATCCTG
TGGGCTACTTCACCAAAGAGAACCCTGTGAAAGGCTCTCCAGGGGTCCCTTCCTTTGCAGCTGGGCCCCCATCT
CTGAGGGCAAATACTTCTCCAGCAACCCCATCATCCCCAGCCAGTCGGCAGCTTCCTCGGCCATTGCGTTCCAGC
CAGTGGGGACTGGTGGGGTCCAGCTCTGTGGAGGCGGCTCCACGGGCTCCAAGGGACCCTGCTCTCCCTCCAGTT
CTCGAGTCCCCAGCACTTCTAGCATTTCCAGCAGCGCCGGTTACCCTACCATCCCTGCGGCAGTGCTTCCCAGA
GCCCCTGCTCCCCACCAGGCACCGGCTCCTTCAGCAGCAGCTCCAGTTCCAATCGAGTGGCAAAATCATCCTTC
AGCCTTGTGGCAGCAAGTCCAGCTCTTCTGGTCACCCTTGCATGTCTGTCTCCTCCTTGACACTGACTGGGGGCC
CCGATGGCTCTCCCCATCCTGATCCCTCCGCTGGTGCCAAGCCCTGTGGCTCCAGCAGTGCTGGAAAGATCCCCT
GCCGCTCCATCCGGGATATCCTAGCCCAAGTGAAGCCTCTGGGGCCCAGCTAGCTGACCCTGAAGTTTCTCTAC
CCCAAGGAGAGTTACTCGACAGTCCATTAAGTCAACTGTTGTGTGTGTGCATGCCTTGGGCACAAACAAGCACATA
CACTATATCCCATATGGGAGAAGGCCAGTGGCCAGGCATAGGGTTAGCTCAGTTTCCCTCCTTCCCAAAGAGTG

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FIGURE 620

MGSSRAPWMGRVGGHGMALLLAGLLLPGLAKSIGTFSDPCKDPTRITSPNDPCLTGKGDSSGFSSYSGSSSSG
SSISSARSSGGGSSGSSSGSSIAQGSAGSFKPGTGYSQVSYSSGSGSSLQGASGSSQLGSSSSSHGSSGSHSGS
SSSHSSSSSSSFQFSSSSSFQVGNGSALPTNDNSYRGILNPSQPGQSSSSSQTSQVSSSGQSVSSNQRPCSSDIPDS
PCSGGPIVSHSGPYIPSSHSVSGGQRPVVVVVDQHGSGAPGVVQGPPCSNGLPGKPCPPITSVDKSYGGYEVVG
GSSDSYLVPGMTYSKGKIYPVGYFTKENPVKGSPGVPSFAAGPPISEGKYFSSNPIIPSQSAASSAIAFQPVGTG
GVQLCGGGSTGSKGPCSPSSSRVPSSSSISSSAGSPYHPCGSASQSPCSPPGTGFSFSSSSSSQSSGKIILQPCGS
KSSSSGHPCMSVSSLTLTGPDGSPHPDPSAGAKPCGSSSAGKIPCRSIRDILAQVKPLGQQLADPEVFLPQGEL
LDSP

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FIGURE 622

MEHPLFGCLRSPHATAQGLHPFSQSSIALHGRSDHMSYPELSTSSSSCIIAGYPNEEGMFASQHHRGHHHHHHHH
HHHHQQQQHQALQTNWHLPMSSPPSAARHSLCLQPDSGGPPELGSSPPVLCNSSLGSSTPTGAACAPGDYGR
QALSPAEEKRSGGKRKSDSSDSQEGNYKSEVNSKPRKERTAFTEQIRELEAEFAHNYLTRLRRIEIAVNLDL
TERQVKVWFQNRMRKWKRVKGGQQGAAAREKELVNVKGTLLPSELGIGAATLQQTGDSIANEDSHDSHSSEH
AHL

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FIGURE 623

CGACATCAGAGATGAGGACAGCATTGCTGCTCCTTGCAGCCCTGGCTGTGGCTACAGGGCCAGCCCTTACCCCTGC
GCTGCCACGTGTGCACCAGCTCCAGCAACTGCAAGCATTCTGTGGTCTGCCC GGCCAGCTCTCGCTTCTGCAAGA
CCACGAACACAGTGGAGCCTCTGAGGGGGAATCTGGTGAAGAAGGACTGTGCGGAGTCGTGCACACCCAGCTACA
CCCTGCAAGGCCAGGTGAGCAGCGGCACCAGCTCCACCCAGTGCTGCCAGGAGGACCTGTGCAATGAGAAGCTGC
ACAACGCTGCACCCACCCGCACCGCCCTCGCCACAGTGCCCTCAGCCTGGGGCTGGCCCTGAGCCTCCTGGCCG
TCATCTTAGCCCCCAGCCTGTGACCTTCCCCCAGGGAAGGCCCTCATGCCTTTCCTTCCCTTCTCTGGGGAT
TCCACACCTCTCTTCCCCAGCCGGCAACGGGGGTGCCAGGAGCCCCAGGCTGAGGGCTTCCCCGAAAGTCTGGGA
CCAGGTCCAGGTGGGCATGGAATGCTGATGACTTGGAGCAGGCCCCACAGACCCACAGAGGATGAAGCCACCCC
ACAGAGGATGCAGCCCCCAGCTGCATGGAAGGTGGAGGACAGAAGCCCTGTGGATCCCCGGATTTCACACTCCTT
CTGTTTTGTTGCCGTTTATTTTGTACTCAAATCTCTACATGGAGATAAATGATTTAAACC

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FIGURE 624

MRTALLLLAALAVATGPALTLRCHVCTSSSNCKHSVCPASSRFCKTTNTVEPLRGNLVKKDCAESCTPSYTLQG
QVSSGTSSTQCCQEDLCNEKLHNAAPTRTALAHSALSGLALSLLAVILAPSL

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FIGURE 625

GGAGCCGGGCGGGGCCAGCGGCATTAGAGCCTTGTGTAATTGGGTGCTCAGACTTGTCTCCGGCCTCCGCGTCC
GCGCCAGCGCGCCAGCGACGTGCGGGCGGCCTGGCCCGCGCCTCCCGCGCCCGGCCTGCGTCCCGCGCCCTG
CGCCACCGCCCGCGAGCCGACGCCCGCGCGCCCCCGGCAGCGCCGGCCCCATGCCCGCGGCCCGCGGGGCC
CCGCGCCCCAATCCGCGCGGGCGGCCGCGCCGTTGCTGCCCCCTGCTGCTGCTGCTCTGCGTCTCGGGGCGCCGC
GAGCCGGATCAGGAGCCACACAGCTGTGATCAGTCCCCAGGATCCACGCTTCTCATCGGCTCCTCCCTGCTGG
CCACCTGCTCAGTGACGGAGACCCACCAGGAGCCACCGCCGAGGGCCTCTACTGGACCCTCAACGGGCGCCGCC
TGCCCCCTGAGCTCTCCCGTGTACTCAACGCCTCCACCTTGGCTCTGGCCCTGGCCAACCTCAATGGGTCCAGGC
AGCGGTCGGGGGACAACCTCGTGTGCCACGCCCCGTGACGGCAGCATCCTGGCTGGCTCCTGCCTCTATGTTGGCC
TGCCCCCAGAGAAACCGTCAACATCAGCTGCTGGTCCAAGAATGAAGGACTTGACCTGCCGCTGGACGCCAG
GGGCCCACGGGGAGACCTTCCTCCACACCAACTACTCCCTCAAGTACAAGCTTAGGTGGTATGGCCAGGACAACA
CATGTGAGGAGTACCACACAGTGGGGCCCCACTCCTGCCACATCCCCAAGGACCTGGCTCTCTTTACGCCCTATG
AGATCTGGGTGGAGGCCACCAACCGCCTGGGCTCTGCCCGCTCCGATGTACTCACGCTGGATATCCTGGATGTGG
TGACCACGGACCCCCCGCCGACGTGCACGTGAGCCGCGTCGGGGGCGCTGGAGGACCAGCTGAGCGTGCCTGGG
TGTGCCACCCGCCCTCAAGGATTTCTCTTTCAAGCCAAATACCAGATCCGCTACCGAGTGGAGGACAGTGTGG
ACTGGAAGGTGGTGGACGATGTGAGCAACCAGACCTCCTGCCGCTGGCCGGCCTGAAACCCGGCACCGTGTACT
TCGTGCAAGTGCCTGCAACCCCTTTGGCATCTATGGCTCCAAGAAAGCCGGGATCTGGAGTGAGTGGAGCCACC
CCACAGCCGCTCCACTCCCCGCAGTGAGCGCCGGGCGCGGGCGGGGCGTGCGAACCGGGGGCGGAGAGC
CGAGCTCGGGGCGGGTGCGGCGCGAGCTCAAGCAGTTTCTGGGCTGGCTCAAGAAGCACGCGTACTGCTCCAACC
TCAGCTTCCGCTCTACGACCAGTGGCGAGCCTGGATGCAGAAGTCGCACAAGACCCGCAACCAGGACGAGGGGA
TCCTGCCCTCGGGCAGACGGGGCACGGCGAGAGGTCTGCCAGATTAAGCTGTAGGGGCTCAGGCCACCCTCCCTG
CCACGTGGAGACGCAGAGGCCGAACCCAACTGGGGCCACCTCTGTACCTTCACTTCAGGGCACCTGAGCCACCC
TCAGCAGGAGCTGGGGTGGCCCCCTGAGCTCCAACGGCCATAACAGCTCTGACTCCACGCTGAGGCCACCTTTGGG
TGCACCCAGTGGGTGTGTGTGTGTGTGTGAGGGTTGGTTGAGTTGCCTAGAACCCCTGCCAGGGCTGGGGGTGA
GAAGGGGAGTCATTACTCCCCATTACCTAGGGCCCCCTCCAAAAGAGTCCTTTTAAATAAATGAGCTATTTAGGTG
CAAA

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FIGURE 626

MPAGRRGPAAQSARRPPPLPLLLLLLCVLGAPRAGSGAHTAVISPDPTLLIGSSLLATCSVHGDPFGATAEGLY
WTLNGRRLPPELSRVLNASTLALALANLNGSRQRSGDNLVCHARDGSILAGSCLYVGLPPEKPVNISCWSKNMKD
LTCRWTPGAHGETFLHTNYSKYKLRWYGQDNTCEEYHTVGPHSCHIPKDLALFTPYEIWVEATNRLGSARSDVL
TLDILDVVTTDPPPDVHVS RVGGLEDQLSVRWVSPALKDFLFQAKYQIRYRVEDSVDWKVDDVSNQTSCLAG
LKPGTVYFVQVRCNPFGIYGSKKAGIWSEWSHPTAASTPRSERPGPGGGACEPRGGEPSSGPVRRELKQFLGWLK
KHAYCSNLSFRLYDQWRAWMQKSHKTRNQDEGILPSGRRGTARGPAR

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FIGURE 627

GGGAATAGCAGAATAGGAGCAAGCCAGCACTAGTCAGCTAACTAAGTGACTCAACCAAGGCCTTTTTTCCTTGTT
ATCTTTGCAGATACTTCATTTTCTTAGCGTTTCTGGAGATTACAACATCCTGCGGTTCCGTTTCTGGGAACTTTA
CTGATTTATCTCCCCCTCACACAAATAAGCATTGATTCTGCATTTCTGAAGATCTCAAGATCTGGACTACTGT
TGAAAAAATTTCCAGTGAGGCTCACTTATGTCTGTAAAGATGGGAAAAAATACAAGAACATTGTTCTACTAAAA
GGATTAGAGGTCATCAATGATTATCATTTTAGAATGGTTAAGTCCTTACTGAGCAACGATTTAAAACTTAATTTA
AAAATGAGAGAAGAGTATGACAAAATTCAGATTGCTGACTTGATGGAAGAAAAGTTCCGAGGTGATGCTGGTTTG
GGCAAATAATAAAAAATTTTCGAAGATATACCAACGCTTGAAGACCTGGCTGAAACTCTTAAAAAGAAAAAGTTA
AAAGTAAAGGACCAGCCCTATCAAGAAAGAGGAAGAAGGAAGTGCATGCTACTTCACCTGCACCCCTCCACAAGC
AGCACTGTCAAAACTGAAGGAGCAGAGGCAACTCCTGGAGCTCAGAAAAGAAAAAATCAACCAAGAAAAAGGCT
GGACCCAAAGGGAGTAAGGTGTCCGAGGAACAGACTCAGCCTCCCTCTCCTGCAGGAGCCGGCATGTCCACAGCC
ATGGGCCGTTTCCCATCTCCCAAGACCTCATTGTGAGCTCCACCCAACAGTTCTTCAACTGAGAACCCGAAAAACA
GTGGCCAAATGTCAGGTAACCTCCAGAAAGAAATGTTCTCCAAAACGCCAGTGATAGTGAAGGTACTGAGTACA
ACAAAGCCATTTGAATATGAGACCCAGAAATGGAGAAAAAATAATGTTTCATGCTACAGTGGCTACACAGACA
CAGTTCTTCCATGTGAAGGTTTTAAACACCAGCTTGAAGGAGAAATTCAATGGAAAGAAAAATCATCATATATCA
GATTATTTGGAATATGATAGTCTCCTAGAGGTCAATGAAGAATCTACTGTATCTGAAGCTGGTCCTAACCAAACG
TTTGAGGTTCCAAATAAAATCATCAACAGAGCAAAGGAAACTCTGAAGATTGATATTCTTCACAAACAAGCTTCA
GGAAATATTGTATATGGGGTATTTATGCTACATAAGAAAACAGTAAATCAGAAGACCACAATCTACGAAATTCAG
GATGATAGAGGAAAAATGGATGTAGTGGGGACAGGACAATGTACAATATCCCCTGTGAAGAAGGAGATAAGCTC
CAGCTTTTCTGCTTTTCGACTTAGAAAAAAGAACCAGATGTCAAAACTGATTTTCAGAAATGCATAGTTTATCCAG
ATAAGAAAAAAACAAACCCGAGAAACAATGACCCCAAGAGCATGAAGCTACCCAGGAACAGCGTCAGCTTCCA
TATCCTTCAGAGGCCAGCACAACTTCCCTGAGAGCCATCTTCGGACTCCTCAGATGCCACCAACAACCTCCATCC
AGCAGTTTCTTCACCAAGAAAAAGTGAAGACACAATCTCCAAAATGAATGACTTCATGAGGATGCAGATACTGAAG
GAAGGGAGTCATTTTCCAGGACCGTTCATGACCAGCATAGGCCAGCTGAGAGCCATCCCCACACTCCTCAGATG
CCTCCATCAACACCAAGCAGCAGTTTCTTAACCACGTTGAAACCAAGACTGAAGACTGAACCTGAAGAAGTTTCC
ATAGAAGACAGTGCCAGAGTGACCTCAAAGAAGTGATGGTGCTGAACGCAACAGAATCATTTGTATATGAGCCC
AAAGAGCAGAAGAAAATGTTTCATGCCACAGTGGCAACTGAGAATGAAGTCTTCCGAGTGAAGGTTTTTAATATT
GACCTAAAGGAGAAGTTCACCCCAAAGAAGATCATTGCCATAGCAAATTATGTTTGCCGCAATGGGTTCCTGGAG
GTATATCCTTTCACACTTGTGGCTGATGTGAATGCTGACCGAAACATGGAGATCCCAAAAGGATTGATTAGAAGT
GCCAGCGTAACTCCTAAATCAATCAGCTTTGCTCACAACTAAAGGAAGTTTTGTGAATGGGGTGTGTTGAGGTA
CATAAGAAAAATGTAAGGGGTGAATTCACCTATTATGAAATACAAGATAATACAGGGGAAGATGGAAGTGGTGGTG
CATGGACGACTGAACACAATCAACTGTGAGGAAGGAGATAAACTGAAACTCACCAGCTTTGAATTGGCACCAGAAA
AGTGGGAATACCGGGGAGTTGAGATCTGTAATTCATAGTCACATCAAGGTCATCAAGACCAGGAAAAACAAGAAA
GACATACTCAATCCTGATTCAAGTATGGAACTTCACCAGACTTTTTCTTCTAAATCTGGATGTCAATTGACGAT
AATGTTTATGGAGATAAGGTCTAAGTCCCTAAAAAATGTACATATACCTGGTTGAAATACAACACTATACATAC
ACACCACCATATATACTAGCTGTTAATCCTATGGAATGGGGGTATTGGGAGTGCTTTTTTAATTTTTTCATAGTTT
TTTTTTAATAAAATGGCATATTTTGCATCTACAACCTCTATAATAAGAAAAAATAAATAAACATTATCTTTTTTG
TGAAAAAA

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FIGURE 628

MGKKYKNIVLLKGLEVIN DYHFRMVKSLLSNDLKLNLKMREEYDKIQIADLMEEKFRGDAGLGKLIKIFEDIPTL
EDLAETLKKEKLKVKGPALSRKRKKEVHATSPAPSTSSTVKTEGAEATPGAQKRKKSTKEKAGPKGSKVSEEQTQ
PPSPAGAGMSTAMGRSPSPKTSLSAPPNSSSTENPKTVAKCQVTPRRNVLQKRPVIVKVLSTTKPFYEYETPEMEK
KIMFHATVATQTQFFHVKVLNTSLKEKFNGKKIIISDYLEYDSLLEVNEESTVSEAGPNQTFEVPNKIINRAKE
TLKIDILHKQASGNIVYGVMFLHKKTVNQKTTIYEIQDDRGKMDVVG TGQCHNIPCEEQDKLQLFCFRLRKKNQ
SKLISEMHFSIQIKKKTNP RRNDPKSMKLPQEQRQLPYPSEASTTFPESHLRTPQMPPTTPSSSF TTKKSEDTIS
KMNDFMRMQILKEGSHFPGPFMTSIGPAESHPTPQMPSTPSSSFLTTLPRLKTEPEEVSIEDSAQSDLKEVM
VLNATESFVYEPKEQKKMFHATVATENEVFRVKVFENIDLKEKFTPKKIIAIAANYVCRNGFLEVYPFTLVADVNAD
RNMEIPKGLIRSASVTPKINQLCSQTKGSFVNGVFEVHKKNVRGEFTYYEIQDNTGKMEVVVHGRLNTINCEEED
KLKLTSEFELAPKSGNTGELRSVIHSHIKVIKTRKNKKDILNPDSSMETSPDFFF

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FIGURE 629

CGGGTGCCATGCAGCTTTCTCTAATTTGCTCTCAGTTCCTGGCTATGAATTGCTAACTATCAGTCTCGCGCTCA
CCGCCCCGGCTGAGGAGGTGAAAGTTTCTCCCCAGGAAGATAAACCGCAAAGACATATATTGTGCATGATTTGCG
CCTTTTCTTTGGCTTTTTCTTTCTTTCTTACCCCCCACCCTTTTTTTTTTTTTTTTTTTTCAAAAAGCAGAGA
GGGAAAAACGGAGAGTGAAGGAGCGAGGAGGCGAGCGTGAGAGAAAGGAGAGAGAGAGAAAAGAAAGGGCGAGGG
GCTAGTGGAGGAAGGAAGGAGGGGCGGCTGCGCGAGGCGGAGAGAGGGCGAAGCAGTCGCGGCACTGGCGCTCAC
ATTCTCTATGCTACAAATCCAGGAGGAAGTTTTTTTTTAGGGGGCTGAGATGCTCCATGCCTTTAAAAGGGCAG
CCTTGACGCGCGGCCCTCTCGGCAGAGACTGAGCGGCGAGAAAGTGCAGAGCCGGGCCGAGAACTGCTGCGGCG
GGCGCTGGAGCCTGCGTTACTCGCGGCCCGCAGCCGTCCGGCTACTTTGCGTTTGGCCCCGGCCAGCGCCGCGCGG
CGCGCGCGCGCCATTGCCTGCAGGCTAGGACTTCGCGAGGTGGGTGCACTACCCCTCCCTCCTCCTCTTCTTCTCT
CCTCTTCTCCTCCTCCTTGTCTCTCCTCCTCCTCCCGATTTTCCCTCCTCGGCTGGCGAGGGTGGGGGGGGCGGG
GGAGGCCGGGGCTCGCCCCGAGCAGCCACGATGCTCTGAGCGCCGGCCCCCAGTACCCAGCGATCGGCGTGACC
ACCTTTGGCGCGTCCCGCCACCCTCCGCGGGCGAGCTGGCCGAACGAGACGTGGGCCTGGGCATCAACCCGTTT
GCCGACGGCATGGGCGCCTTCAAGCTCAACCCCCAGTTCGCACGAGCTGGCTTCGGCCGGCCAGACAGCCTTCACG
TCGACGGCGCCAGGCTACGCGGCTGCTGCGGCCCTGGGCCATCACCATCACC CGGGCCACGTGCGCTCCTATTCC
AGCGCAGCCTTCAACTCCACGCGGGACTTTCTGTTCCGCAACCGGGTTTTTGGCGACGCGGCGGCGGCAGCCAGC
GCACAGCACAGCCTCTTTGCTGCATCGGCCGGGGGCTTCGGGGGGCCACACGGCCACACGGACGCCGCGGGCCAC
CTCCTCTTCCCCGGGCTTCACGAGCAGGCTGCCGGCCACGCGTCGCCTAACGTGGTCAACGGGCAGATGAGGCTC
GGCTTCTCGGGGACATGTACCCGCGACCGGAGCAGTACGGCCAGGTGACCAGCCGCGTTTCGGAGCACTATGCT
GCGCCGACGTGCACGGCTACGGGCCCATGAACGTGAACATGGCCGCGCATCACGGCGCGGCGCGCTTCTTCCGC
TACATGCGCCAACCCATCAAGCAAGAGCTCATCTGCAAGTGGATCGAGCCGAGCAGCTGGCCAACCCCAAAAAG
TCGTGCAACAAAACCTTTCAGCACCATGCACGAGCTAGTTACGCACGTACCCGTGGAGCACGTAGGTGGCCCGGAG
CAGAGTAATCACATCTGCTTCTGGGAGGAGTGTCCGCGCGAGGGCAAGCCCTTCAAAGCCAAATACAACTGGTT
AACCACATCCGCGTGCACACGGGCGAGAAGCCCTTTCCCTGCCCTTCCCTGGCTGTGGCAAGGTCTTCGCGCGC
TCCGAGAATTTAAAGATCCACAAAAGGACGCACACAGGGGAGAAGCCCTTCAAGTGCAGTGTGAGGGCTGTGAC
CGGCGCTTCGCTAACAGCAGCGACCGCAAGAAGCACATGCACGTGCACACGAGCGACAAGCCCTATCTTTGCAAG
ATGTGCGACAAGTCTACACGCATCCCAGTTCGCTGCGCAAACACATGAAGGTCCACGAATCCTCCTCGCAGGGC
TCGACGCTTCGCGGGCCGCGAGCTCTGGCTACGAATCCTCCACGCCTCCACCATCGTGTCTCCTCCACAGAC
AACC CGACACAAGCTCCTTATCGCCCTCCTCCTCCGAGTCCACCACACAGCCGGCCACAGTGCCTCTCTTCC
AATTTTAACGAATGGTACGTTTAAATCAGAAACAAAACATCGAACAAAACCCTATTTAAGAGACTTGATCACAC
ACGTATACACAACATTACTGAAAGAACCCTGCGAATCAAACAACCCCCACACAGACCCCGCAATCCTCTTTTAA
AAAATCTGCCAATAGACCCAGGACGAGTAAGAGAGGAAGCATCAACCTTTTAAAAATTTCTTTTCGCTTTTCTTA
TTTTTCTTTTTTTGGCAAAGGCTTGGTACCCAAGGTGCGGTAGGGGGTTCGAGGGGAGGAGGCCACCTGACCAAA
TGCCGCCAACCCCGAGGGCCAGTTTCTTGTGCAATTGGTACGGGCTCTCTGGGGCTTCGGCTTCTTTTTTTCTTT
GTTTTCTTGTAATACAGAATTATTAGCTTAAACTGTACTGTTGAATTCTGTAAATAGTTATATCTCGGTTGGA
GCGGGTGGGTGGGATTGTGGCGTTGTGGTCTTTGCATTGGGGGAGGGGGGAGGGACCGGATGGGCGGGGGGAGGG
GGAGGGGGAGGGGTGGGCGGCCGAAAGCCAACTGTTTGTACTGAATGGCAAGAATGTTCTAGTAAATGTGTACCA
AAATGTGAATTACTTTGTACGATTACAGTCTCCACGTGACCTAACCCAATATTATTGGTATTAATGTGCTTTTT
TTGTATAAAGTGCAACATTTTCGTCCCAAAGTCTAAGTACTTTAGTGCAGTAAATGTTGTTTCATGTCTGTCA
AGAATTCGTATAGTACGAGCCTGGATCTGCGTGTCAAACGTGTTCCATTTGTTTATGTAAAGTGATATTA AAAAG
ATATAA ACTATAACTGTCCGTTACTTTTGGCAAAGATACAACCACATAATGTATATAATTCTAGTTTCCATAT
TTATCCGCAITGTAAGGGCCGTTTATCCATGTTACAGCTCTTCAATATTTATGGCTAGAAGA ACTCGTATGTAC
ACTTTAGTTTCCAGA ACTGTTTGGTAACCTTTTCGTACCTTATTAAAGATTCTTAAATCTCAA

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FIGURE 630

MLLDAGPQYPAIGVTTFGASRHHSAGDVAERDVGLGINPFADGMGAFKLNPSSELASAGQTAFTSQAPGYAAAA
ALGHHHPGHVGSYSSAAFNSTRDFLFRNRGFGDAAAAASAQHSIFAASAGGFGGPHGHTDAAGHLLFPGLHEQA
AGHASPNNVNGQMRLGFSGDMYPRPEQYQVTSRSEHYAAPQLHGYGPMNVNMAAHGAGAFFRYMRQPIKQEL
ICKWIEPEQLANPKKSCNKTFTMHVTHVTVEHVGGPEQSNHICFWEECPREGKPFKAKYKLVNHIRVHTGEK
PFPCPFPGCGKVFARSENKIHKRHTHTGEKPFKCEFECDRRFANSSDRKKHMHVHTSDKPYLCKMCDKSYTHPS
SVRKHMKVHESSQGSQPSAASSGYESTPPTIVSPSTDNPTTSSLSPSSSAVHHTAGHSALSSNFNEWYV

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FIGURE 631

GACAGCGGCTTCCTTGATCCTTGCCACCCGCGACTGAACACCGACAGCAGCAGCCTCACCATGAAAGTTGCTGATG
GTCCTCATGCTGGCGGCCCTCTCCCAGCACTGCTACGCAGGCTCTGGCTGCCCCTTATTGGAGAATGTGATTTC
AAGACAATCAATCCACAAGTGTCTAAGACTGAATACAAAGAACTTCTTCAAGAGTTCATAGACGACAATGCCACT
ACAAATGCCATAGATGAATTGAAGGAATGTTTTCTTAACCAAACGGATGAACTCTGAGCAATGTTGAGGTGTTT
ATGCAATTAATATATGACAGCAGTCTTTGTGATTTATTTTAACTTTCTGCAAGACCTTTGGCTCACAGAACTGCA
GGGTATGGTGAGAAACCAACTACGGATTGCTGCAAACCACACCTTCTCTTTCTTATGTCTTTTTACTACAAACTA
CAAGACAATTGTTGAAACCTGCTATACATGTTTATTTTAATAAATTGATGGCA

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FIGURE 632

MKLLMVLMLAALSQHCYAGSGCPLEENVISKTNPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTDETLS
NVEVFMQLIYDSSLCDLF

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FIGURE 633

GTCTACTTATCAATAAGCAGCTGCCTGTGCAGAGTGCAGGCTGCACCTTTGGACAGCCTTTAAACTGAATTCTC
AGAATTTTGAACAAATTTTGTCTAGAAATGCTGACTTTGGTTCATTAGGTAGTGGTAAACAGGCTCCCTTCG
AAGCTCTCCTTCATCACCTTCCTAAGTGCATGTACAGGGAAGCTCTCCTTCATCACCTTCCTAAGTGCATGGGG
AAAATACCTAGGGCTCAACAGTCTTGAGAAGTGTGGAAACATTTTCTTTGTGAGTGAGAACAGATCACCTAGAGA
AAGGAAACCAGATTCCCATCACTGCTTCTGGGTATCAGATGCTAGCGCTGCACTCCATTTTGCAATGSCCTCCCT
TGCTGCAGCAAATGCAGAGTTTTGCTTCAACCTGTTTCAGAGAGATGGATGACAATCAAGGAAATGGAAATGTGTT
CTTTTCCTCTCTGAGCCTCTTCGCTGCCCTGGCCCTGGTCCGCTTGGGCGCTCAAGATGACTCCCTCTCTCAGAT
TGATAAGTTGCTTCATGTTAACTGCCTCAGGATATGGAACTCTTCTAATAGTCAGTCAGGGCTCCAGTCTCA
ACTGAAAAGAGTTTTTCTGATATAAAATGCATCCCACAAGGATTATGATCTCAGCATTGTGAATGGGCTTTTTGC
TGAAAAGTGTATGGCTTTTCATAAGGACTACATTGAGTGTGCCGAAAAATTATACGATGCCAAAGTGGAGCGAGT
TGACTTTACGAATCATTTAGAAGACACTAGACGTAATATTAATAAGTGGGTTGAAAATGAAACACATGGCAAAAT
CAAGAACGTGATTGGTGAAGGTGGCATAAGCTCATCTGCTGTAATGGTGTGCTGGTGAATGCTGTGTACTTCAAAG
CAAGTGGCAATCAGCCTTCACCAAGAGCGAAACCATAAATTGCCATTTCAAATCTCCCAAGTGTCTGGGAAGGC
AGTCGCCATGATGCATCAGGAACGGAAGTTCAATTTGTCTGTTATTGAGGACCCATCAATGAAGATTCTTGAGCT
CAGATACAATGGTGGCATAAACATGTACGTTCTGCTGCCTGAGAATGACCTCTCTGAAATTGAAAACAACTGAC
CTTTCAGAATCTAATGGAATGGACCAATCCAAGGCGAATGACCTCTAAGTATGTTGAGGTATTTTTCTCCTCAGT
CAAGATAGAGAAGAATTATGAAATGAAACAATATTTGAGAGCCCTAGGGCTGAAAGATATCTTTGATGAATCCAA
AGCAGATCTCTCTGGGATTGCTTCGGGGGGTCTGTCTGTATATATCAAGGATGATGCACAAATCTTACATAGAGGT
CACTGAGGAGGGCACCGAGGCTACTGCTGCCACAGGAAGTAATATTGTAGAAAAGCAACTCCCTCAGTCCACGCT
GTTTAGAGCTGACCACCCATTCTTATTTGTTATCAGGAAGGATGACATCATCTTATTGAGTGGCAAAGTTCTTG
CCCTTGAAAAATCCAATTGGTTTCTGTTATAGCAGTCCCCACAACATCAAAGRACCACCACAAGTCAATAGATYTG
RGTTTAATTGGAAAAATGTGGTGTTCCTTTGAGTTTATTTCTTCCTAACATTGGTCAGCAGATGACACTGGTGA
CTTGACCCTTCCTAGACACCTGGTTGATTGTCCTGATCCCTGCTCTTAGCATTCTACCACCATGTGTCTCACCCA
TTTCTAATTTCAATTGTCTTTCTTCCACGCTCATTTCTATCATTCTCCCCATGACCCGTCTGGAAATTATGGAG
RGTGCTCAACTGGTAAGGAGAACGTAGAAGTAGCCCTAGGGATCCTTTTTGAAACTCTACAGTTATCGCAGATAT
TCTAGCTTCATTGTAAGCAATCTAGGAAATAAGCCCTGCTGCTTTCTAGAAATAAGTGTGAAGGATAAATTTCT
TTGTTGACCTATGAAGATTTTAGAGTTTACCTTCATATGTTTGATTTTAAATCAGTGTATAATCTAGATGGTAAA
AAATGTGAAATTGGGATTAGGGACCTACCAAAATATTTCAATTAATGCTTTCAATTGACAAATTTTGGCCTTTCTT
TGATAAGACAATATGTACATGTTTTTCAAATATTAAAGATCTTTTAACTGTTGGCAGTTGTTATCTACAGAATC
ATATTTTCATATGCTGTGTAGTTTATAAGTTTTTCTCTATTTATCAGAATAAAGAAATACAACATACCTGTAAA

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FIGURE 634

MASLAAANAFCFNLFREDDNQGNVFFSSLSLFAALALVRLGAQDDSLSQIDKLLHVNTASGYGNSSNSQSG
LQSQLKRVFSDINASHKDYDLSIVNGLFAEKVYGFHKDYIECAEKLYDAKVERVDFTNHLEDTRRNINKWVENET
HGKIKNVIGEGGISSAVMVLVNAVYFKGKWQSAFTKSETINCHFKSPKCSGKAVAMMHQERKFNLVIEDPSMK
ILELRYNGGINMYVLLPENDLSEIENKLTQNLMEWTNPRRMTSKYVEVFFPQFKIEKNYEMKQYLRALGLKDIF
DESKADLSGIASGGRLYISRMHKSYLEVTEEGTEATAATGSNIVEKQLPQSTLFRADHPFLFVIRKDDIILFSG
KVSCP

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FIGURE 635A

GGAAGCCCGAGGCAGATGCCACGCAATTCTGGAGCTGGATACGGCTGCCACACGGGGACCCAGCATGCTGGAC
AGCAGAGAGACCCACAGGAGAGCCGGCAGGACATGATTGTGAGGACCACCCAAGAAAAATTGAAAACAGCTCA
CTGACTGACAGGCAGCCACTCTCCAAAGAGTCCCTGAACCATGCTCTCGAGCTCTCAGTGCCAGAGAAGGTGAAT
AATGCCCAGTGGGATGCTCCAGAGGAGGCGCTGTGGACGACTCGGGCCGATGGGCGGGTGC GCCTGCGCATAGAC
CCCAGCTGCCACAGCTTCCCTACACTGTGCATCGGATGTTCTACGAGGCCCTGGATAAGTATGGGGACCTCATC
GCTTTGGGCTTCAAGCGCCAGGACAAGTGGGAACACATCTCCTACTCCCAATACTACCTGCTCGCCCGCAGAGCC
GCCAAGGGCTTCTGAAGCTCGGCCTGAAGCAGGCCACAGTGTGGCCATCCTCGGCTTCAACTCCCCGGAGTGG
TTCTTCTCGGCAGTGGGCACAGTATTTGCAGGTGGCATCGTCACTGGCATCTACACCACAGCTCCCCAGAGGCC
TGCCAGTACATCGCTTATGACTGCTGCGCCAATGTTCATCATGGTCGACACGCAGAAGCAGCTGGAAAAGATCCTG
AAGATCTGGAACAGTTGCCACATCTAAAGGCAGTCGTGATATATAAAGAACCTCCTCCAAACAAGATGGCCAAT
GTGTACACGATGGAGGAATTCATGGAGCTGGGGAATGAAGTGCCTGAGGAAGCCCTGGACGCCATCATTGACACC
CAGCAGCCCCAACAGTGTGTGTCTAGTCTACACTTCCGGCACCCTGGGAACCCCAAGGGCGTGATGCTGAGT
CAAGACAATATCACGTGGACGGCACGGTACGGCAGCCAGGCCGGTGACATCCGGCCGGCAGAAGTCCAGCAGGAG
GTGGTAGTCAGCTACCTGCCCCCTCAGCCATATTGCCGCCCAGATCTACGACCTGTGGACAGGCATCCAGTGGGGG
GCCCAGGTTTGCTTTGCCGAACCCGACGCCCTGAAGGGGAGCCTGGTGAACACGCTGCGGGGAGGTGGAGCCCCACA
TCACACATGGGGGTGCCCCGGGTATGGGAGAAGATCATGGAGCGCATCCAGGAGGTGGCGGCTCAGTCTGGCTTC
ATCCGGCGAAAGATGCTGCTGTGGGCCATGTCCGTGACCTTGGAGCAGAACCTCACCTGCCCCGGCAGCGACCTG
AAGCCCTTCACAACCAGACTGGCAGATTACCTGGTGTCTAGCCAAGGTTCCGCCAGGCACTGGGATTTGCCAAGTGT
CAAAAGAACTTCTATGGAGCGGCCCCCATGATGGCAGAGACACAGCACTTCTTCTGGGTCTCAACATCCGCTTG
TATGCGGGCTACGGCCTCAGTGAGACCTCAGGCCCCCACTTTCATGTCCAGTCCCTACAACCTACCGGCTGTACAGC
TCAGGCAAGTTGGTGCCCGGCTGTCCGGTGAAGCTGGTGAACCAGGACGCAGAGGGCATTGGCGAGATCTGCCTG
TGGGGCCGCACCATATTTCATGGGCTACCTGAACATGGAGGACAAGACTTGTGAGGCCATCGACGAGGAAGGCTGG
CTGCACACGGGTGATGCTGGCCGCTGGACGCCGATGGCTTCCTCTACATCACTGGGCGCCTCAAAGAATTAATC
ATCACAGCTGGTGGGGAGAATGTGCCCCCTGTGCCATCGAGGAGGCCGTGAAGATGGAGCTGCCCCATCATCAGC
AACGCCATGCTCATTGGGGACCAGAGGAAGTTCTGTCCATGCTGCTCACCTTGAAGTGCACCTCTGGACCCAGAC
ACCTCTGACCAGACTGATAATCTGACTGAACAAGCTGTGGAGTTCTGCCAGAGGGTGGGCAGCAGAGCCACCACA
GTGTCCGAGATCATAGAGAAGAAGGATGAGGCCGTGTACCAGGCCATCGAAGAGGGGATCCGGAGGGTCAACATG
AACGCGGCGGCCCGGCCCTACCACATCCAGAAGTGGGCCATTCTCGAGAGAGACTTCTCCATTTCCGGGTGGAGAG
TTGGGTCCCACGATGAAACTGAAACGGCTCACAGTTTTTGGAGAAGTACAAAGGTATCATTGACTCCTTTTACCAA
GAGCAAAAAATGTAATCAGGGCCTATGCCCTGCAGTTTTCTATAGAATAGAGGGCAGGCGTTCCGAGCCTCTTCCTG
AGCCCCAGGTCTCTTCAGTCTGGGCACAGGCATTTCTGCCAAGTCTGTTAGATCTCCAGGTCAGGGCACAGCACT
GGCTCTACATTTACCAGGTCTTACGCCAACAATAGCTGACAATTCCAAGAAGCTTCACGTGTGGGTAGTTTTAAT
TCAGTTTAAGTATTGCTTTTTTGTTCAGGTGACAAATGAGATCAGCTCTCCTTCCAGAACGAAAGGGCTGATAATT
TTTGGCCTTAGTTCCAGGTAGATTAAAAAGCTGCTAGCTCACATACAGGACAGCCAGCAGTAGGCTGTGGAGCGG
GTAGGAGAGAGATGGCTGATACTGCTCACGTGCGCTGCAGGAAAAGCAATCAGTCACAACCTACCTAGCGACCTG
ACTTACTCTGGAATCTTGGCGGGCATCGCCGACCCTATTATTCCATTACCAGGCACTCCGCCACCCACATGCCAA
CTGACTTGATGCTTAATAAACTGCTGCTGCCTGTTTGATTCTATTTAATGTATAATTTGAATATTAAACCTTTT
AACAGAAGTGTCAACAAGGACCTGATTTTTTTTGTCAATTGAGCAGGTGGGACCAGTGCAGAGAGTAGTGGGCAT
TTAACTCACAGGACTGTGCACAGCGGGCATGCGAGTGACCATTAGTGCCCTGGAATAAAACAAAGGTGCAGGATGG
GGTCAAGTGGCGCATTCTCATAAAAGCAGCCAGCTCTACGTTAGCCTGTGCCACCAGACCACTCCACTTCCATT
CTGAATACGGGAAGCAGCCATTCTCAGTAGCAAGCTGAGCCAAAATGACCGAAGGCATCTGAACAGGAAAACAGGT
AGAGAAAGCAAACATCTCAGTTTTGGAATCTTTTATTACTTTGAACCCAAGAGCCACTGATAACTGGCACAATCC
AATGAAACAGAGGAAGCAGCAGCTTAAACAAAGGAAAATACATTTAAGATTATAAGTCTGGGGGGGCGGTTACAA
GCTTAAAAAGTGACCCAGACAGGGATATCATTGCTAAAAAATAAATCCCTTGTGACCTGGGTACATTTTGC
AAAGCCACAGGTTTGCAATGTTACACAAGGGCCAAAGGAGGCCATGAGTTGTCTTTGGTTGTGGGGACAGAGGGT
AÄCTGTTTCATGAAAATAGTGAGTGTCTGAAGATTAAAGAAAATCATGCTGCAGCAGAGGAGAAGGGAGAGGAAGAC
AGGAAGGAAAAGGAGATGCCTGAGGGTCAAAAGCTGAGCCCAAGCCTAAGCCCAAGCTCAAGCTCAAGCCCCAGC
ATGGCATAATTTTGTGAATTAATCAGGCTGAGTTGCCTCCAGTCTTTGGAATGTTCATCTTATACTGGTACTGCT

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FIGURE 635B

GAGGCAGAGGGCAGTAATTGGTGCTTTGGGATAGGAGAAAGGGGCAGTTGCTGAAATACAAAATTAATAGCATCCC
AAGTTCCTCAATTGCAGCCAAAATACATGTGTTTCGGGCCTTTTCGGCAGTATCGCCCCCAGAACTACCTGCTGTAG
TGTGGTCCATTCCCAGACAGCAACATGCAAGAATAAGTTTACAATACACTTAGCCCTTCTGGCTTCAGATCAGGG
GCTCAGAGGCTGTGACAACTCATGATGCTGAAAATGTATCCAGTGAAAATGAAGTACTAGCTCTCTGCTTCATTA
AAAGCTCTTGGAAGAATATTAAATCTCAAGACAACAAAATAATTGAACACACAATACATTTGTGTCTTTGTATC
CAATATATTACCTTTGTCTTATTAACAAAAATTATATCTCTCATTATATATTTCTTGGATCTGAAGTTTTTATTTC
ACACTCAGTAATTTCTGTAAAGGACAAATCTGTCTCTATTTTCCATATCATTTAGAAATATACCACATTCACTCT
TTTTGATGTGAACCTTTCCAGGAAAATTCTCTTGTGCCCATTTAGTTTTAGAAGAGTGTCAATTTGTGCTATTAT
GTCAATATCCTGTTTTATTTCCATTATGTTTTTCAAAAACCGAAGAAAATAAGGTTTTTCTTAAAAAGTTAGACA
TTTTCTCTTGTTAATTTCTGTATCCTGTTATTTACAGCTGAAGAGAACTATTTTAACTTAAGTGTAATGTTT
AGAATAGCAAATGATACAGTCCACTCAGAGTTTACAAAAAAACATTTACCAGGTAGACACTTAATAAATAAAAC
AAGCACTTGGAAGTTCTTTGAAAACAGACCTAGGGACATCCACCTGCATCTTTTGCACAGATTTTGTAAAGA
AAAGGCCAGATCTAAAAATGTACTGTCAAGAAACAAGCAACCAATGCATACATACGTAGGTATTCTAAACAGAG
GTTTATGTGGTGTCCATTTAGAGTGACTGATGTAAATGCCAGTTGTAGAAGTGTTAATCTAAATCTTTTACTCGG
CGACAGATTTCTCTGTGAAGTCTGAGCATTTTGCATTGCCCTCCCAAATCTTTTGTCAAGCTCTGAGAAAAGGAA
AAAGCAAAAATAAAAGATGTATCCGCAAACTAACTAAACCAAGGAGATTTTAAAGCCCTCAGTGAGATGCCACC
TGGGCAAGTTACTCGGCTGCTCTTTTCAATTTAGTTTCTTCAATTTCAAAGTGAGGAACCACTCCACCACCATCTACCC
AGCCCAGGAGGATCGGGATCCAATCTCATAGTGATACAAACAGCACTCTGCAAAGAATAAGGTGCTCTTGATGCA
AAGGGAGGCAGGGAGCTTTACCAAAATTTTCCCTTTGTTTACACAATAGACCCTAACCCAGATTAGTTGGTCATG
GATATTTAAATAAAAGCGAATCTAAATAAGAAGTTTAAAAATCCTTGGGAAATATGTCTCAGGAATAGACCTGAG
ACATATTTTGATCTATTTTTGTTTTTATTATTATTTTTTTTTTTTAGATGGAGTCTCACTCTGTTGCCAGGCTGGA
GTGCAGTGGCACGATCCCAGCTCACCACAACCTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCGTCCTG
AATAGCTGGAATTACAAGTGATGCCACCATAACCAACTAATTTTTGTATCTGATCTATTTTTGGAGGCTGGGAC
ACAAATACGAAAGAAATATTTAAATCATTAACTCTTTTTTTTTTTTTTAAAGAGATGGGGTCTCACTATGTGGCCCA
GGCTGGTCTTTGAACTCAGAGGCTAAGGTGATCCTCCTGCCTCAGCCTATAGCTGCAACTACAGGCATGCACCACC
ACACCTGCCTAAATCATTAACTCTTAAACCTCCCTCTTTAGGAAAGAAAGCCTCCCATACAACTGATCTGTTCTA
CCAGCTTATCCTTTCTTTTCTGCATACAGACCCCAATATATTTAATTCTCTTTATCTTTCCATCCTACACAATAA
AAGGGCCCACTATGTAATTCAGGCACCTCTCTACTGGGCTGTAGATTATAACTTCCCAAATATAACTTTAAAGAA
TAAGAAAATCATATGACCTCCAATGTGACTATCAGGCTGTTAAAAACAAGCCTGAATTTCTTGTATTTTGGCCAC
ACGATATAATTTCAAATTACAGAATTTTTTTTAAAGAAGGGACCAACTTTGAAGATATTACGCTAAGTGAAATAA
GCCAGACTCAAAGGACAAATACTGTATGATTCCACTTACATGAGGTACCTAGAGTAGTCAAATTCATAGAGACAG
GAAGCAGAATGGCAGGTGTCAGAGGATGGGAGGGGGAAGGGAAAGTTACTGTTTAAACGGGTGCAGAGTCTCAGTT
TGAGAAAATGAACTGGTCTGGAGATGACTGATGGTGTGTTACATTACAATGTGAATGTACTTAACATTATTG
AACTGTATACCTAAATACGGCTAAAATGGCAAATTTTATGTTATGCATATTTTTCACAATTTTTGTAAAAAGGA
CCTCAAATTAGG

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FIGURE 636

GAATCACGACCCCTCCCTGCCATGTATCCGCAGGGCAGACATCCGGCTCCCCATCAACCCGGGCAGCCGGGATTT
AAATTCACGGTGGCTGAGTCTTGTGACAGGATCAAAGACGAATTCCAGTTCTTGCAAGCTCAGTATCACAGCCTC
AAAGTGGAGTACGACAAGCTGGCAAACGAGAAGACGGAGATGCAGCGCCATTATGTGATGTACTATGAGATGTCC
TATGGCTTGAACATTGAAATGCACAAGCAGACAGAGATTGCGAAGAGACTGAACACAATTTTAGCACAGATCATG
CCTTTCCTGTACACAAGAGCACCAGCAGCAGGTGGCGCAGGCAGTGGAGCGCGCCAAGCAGGTCACCATGACGGAG
CTGAACGCCATCATCGGGCAGCAGCAGCTCCAGGCGCAGCACCTCTCCCATGCCACACACGGCCCCCGGTCCAG
TTGCCACCCACCCGTCAGGTCTCCAGCCTCCAGGAATCCCCCAGTGACAGGGAGCAGCTCCGGGCTGCTGGCA
CTGGGCGCCCTGGGCAGCCAGGCCCATCTGACGGTGAAGGATGAGAAGAACCACCATGAACTCGATCACAGAGAG
AGAGAATCCAGTGCGAATAACTCTGTGTACCCCTCGGAAAGCCTCCGGGCCAGTGAGAAGCACCGGGGCTCTGCG
GACTACAGCATGGAAGCCAAGAAGCGGAAGGTGGAGGAGAAGGACAGCTTGAGCCGATACGACAGTGATGGAGAC
AAGAGTGATGATCTGGTGGTGGATGTTTCCAATGAGGACCCCGCAACGCCCCGGGTGAGCCCGGCACACTCCCT
CCTGAAAATGGGCTGGACAAGGCCCGTAGCCTGAAAAAAGATGCCCCACCAGCCCTGCCTCGGTGGCCTCTTCC
AGTAGCACACCTTCTCCAAGAÇCAAAGACCTTGGTCATAACGACAAATCCTCCACCCCTGGGCTCAAGTCCAAC
ACACCAACCCCAAGGAACGACGCCCAACTCCAGGCACCAGCACGACCCAGGGCTCAGGTCGATGCCGGGTAAA
CCTCCGGGCATGGACCCGATAGGTATAATGGCCTCGGCTCTGCGCACGCCCATCTCCATCACCAGCTCCTATGCG
GCGCCCTTCGCCATGATGAGCCACCATGAGATGAACGGCTCCCTCACCAGTCTTGCGCCTACGCCGGCCTCCAC
AACATCCCACCCAGATGAGCGCCGCGCCGCTGCTGCAGCCGCTGCCTATGGCCGATCGCCAATGGTGAGCTTT
GGAGCTGTTGGTTTTGACCCTCACCCCCGATGCGGGCCACAGGCCTCCCCCTCAAGCCTGGCCTCCATTCTGGA
GGAAAACCAGCGTACTCATTCCATGTGAGTGCTGATGGGCAGATGCAGCCCGTGCCCTTCCCCACGACGCCCTG
GCAGGCCCCGGCATCCCAGGCACGCCCCGGCAGATCAACACACTCAGCCACGGGGGGGTGGTGTGTGCCGTGACC
ATCAGCAACCCAGCAGGCACGTCTACACAGGTGGCAAGGGCTGCGTGAAGATCTGGGACATCAGCCAGCCAGGC
AGCAAGAGCCCCATCTCCCAGCTGGACTGCCTGAACAGGGACAATTACATGCGCTCCTGCAAGCTGCACCCTGAT
GGGCGCACGCTCATCGTGGGCGGCGAGGGCAGCACGCTCACCATCTGGGACCTGGCCTCGCCACGCCCCGCATC
AAGGCCGAGCTGACGTCTCGGCTCCCGCCTGTTATGCCCTGGCCATTAGCCCTGACGCCAAAGTCTGCTTCTCC
TGCTGCAGCGATGGGAACATTGCTGTCTGGGACCTGCACAACCAGACCCTGGTCAGGCAGTTCCAGGGCCACACA
GATGGGGCCAGCTGCATAGACATCTCCCATGATGGCACCAAACTGTGGACAGGGGGCCTGGACAACACGGTGC GC
TCCTGGGACCTGCGGGAGGGCCGACAGCTACAGCAGCATGACTTCACTTCCCAGATCTTCTCGCTGGGCTACTGC
CCCACTGGGGAGTGGCTGGCTGTGGGCATGGAGAGCAGCAACGTGGAGGTGCTGCACCACACCAAGCCTCACAA
TACCAGCTGCACCTGCACGAGAGCTGCGTGCTCTCCCTCAAGTTCGCCCTACTGCGGCAAGTGGTTTCGTGAGCACT
GGGAAAGATAACCTTCTCAACGCCTGGAGGACGCTTATGGAGCCAGCATATCCAGTCTAAAGAATCCTCGTCT
GTCTTGAGTTGTGACATTTTCAGCGGATGACAAATACATTGTAACAGGCTCTGGTGACAAGAAGGCCACAGTTTAT
GAGGTCATCTACTTAAACAAGAACTCCAGCAGG

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FIGURE 637

MYPQGRHPAPHQPGQPGFKFTVAESCDRIKDEFQFLQAQYHSLKVEYDKLANEKTQMORHYVMYYEMSYGLNIEM
HKQTEIAKRLNTILAQIMPFLSQEHQQQVAQAVERAQVMTMELNAIIGQQQLQAQHLSHATHGPPVQLPPHPSG
LQPPGIPPVTGSSSSGLLALGALGSQAHLTVKDEKNHHELDHRERESSANNSVSPSESLRASEKHRGSADYSMEAK
KRKVEEKDSLSDRYDSGDKSDDLVDVSNEDPATPRVSPAHSPPENGLDKARSLKKDAPTSPASVASSSSTPSSK
TKDLGHNDKSSTPGLKSNTPTPRNDAPTPTGTSTTPGLRSMGKPPGMDPIGIMASALRTPISITSSYAAPFAMMS
HHEMNGLTSPGAYAGLHNIPPQMSAAAAAAAAAYGRSPMVSGAVGFDPHPPMRATGLESSLASIPGGKPAYSF
HVSADGQMOPVPFFPHDALAGPGIPRHARQINTLSHGGVVCAVTISNPSRHVYTGKGKCVKIWDISQPGSKSPISQ
LDCLNRDNMYMRCKLHPDGRTLIVGGEGSTLTIWDLASPTPRIKAELTSSAPACYALAI SPDAKVCFSCCSDGNI
AVWDLHNQTLVRQFQGHDTGASCIDISHDGTKLWTGGLDNTVRSWDLREGRQLQQHDFTSQIFSLGYCPTGEWLA
VGMESSNVEVLHHTKPHKYQLHLHESCVLSLKFA YCGKWFVSTGKDNLLNAWRTPYGASISQSKESSSVLSCDIS
ADDKYIVTGSGDKKATVYEVY

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FIGURE 638

CTTCTCTGGGACACATTGCCTTCTGTTTTCTCCAGCATGCGCTTGCTCCAGCTCCTGTTTCAGGGCCAGCCCTGCC
ACCCTGCTCCTGGTTCTCTGCCTGCAGTTGGGGGCCAACAAGCTCAGGACAACACTCGGAAGATCATAATAAAG
AATTTTGACATTCCCAAGTCAGTACGTCCAAATGACGAAGTCACTGCAGTGCTTGCAGTTCAAACAGAATTGAAA
GAATGCATGGTGGTTAAACTTACCTCATTAGCAGCATCCCTCTACAAGGTGCATTTAACTATAAGTATACTGCC
TGCCTATGTGACGACAATCCAAAAACCTTCTACTGGGACTTTTACACCAACAGAACTGTGCAAATTGCAGCCGTC
GTTGATGTTATTTCGGGAATTAGGCATCTGCCCTGATGATGCTGCTGTAATCCCCATCAAAAACAACCGGTTTTAT
ACTATTGAAATCCTAAAGGTAGAATTAATGGAAGCCCTGTCTGTTTGCCACACCCAGGTGATTTCCTCTAAAGAAA
CTTGGCTGGAATTTCTGCTGTGGTCTATAAAATAAACTTCTTAACATGCTT

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FIGURE 639

MRLQLLFRASPATLLVLCLQLGANKAQDNTRKII IKNFDIPKSVRPNDEVTAVLAVQTELKECMVVKTYLISS
IPLQGAFNYKYTACLCDDNPKTFYWDFYTNRTVQIAAVVDVIRELGICPDAAVPIKNNRFYTIEILKVE

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FIGURE 640

GGCACGAGGCCTGAGCTCAGGAGTTTGAGACCAGCCTGTCTCTACTAACAATATAAAAAATTAGCTGGGAGTCACG
GTGGGCGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGACAGAGGTTGTA
GTGAGCTGAGATCGCACCCTGCACTCTAGCCTTGGCAACAGTGCAAGACTGTCTCAAAAACAGCAACAGAGAGC
AGGACGTGAGACTTCTACCTGCTCACTCAGAATCATTTCTGCACCAACCATGGCCACGTTTGTGGAGCTCAGTAC
CAAAGCCAAGATGCCCCATTGTGGGCCTGGGCACCTTGAAGTCTCCTCTTGGCAAAGTGAAAGAAGCAGTGAAGGT
GGCCATTGATGCAGGATATCGGCACATTGACTGTGCCTATGTCTATCAGAATGAACATGAAGTGGGGGAAGCCAT
CCAAGAGAAGATCCAAGAGAAGGCTGTGAAGCGGGAGGACCTGTTTCATCGTCAGCAAGTTGTGGCCCACTTTCTT
TGAGAGACCCCTTGTGAGGAAAGCCTTTGAGAAGACCTCAAGGACCTGAAGCTGAGCTATCTGGACGTCTATCT
TATTCCTGAGCCACAGGGATTCAAGTCTGGGGATGACCTTTTCCCCAAAGATGATAAAGGTAATGCCATCGGTGG
AAAAGCAACGTTCTTGGATGCCTGGGAGGCCATGGAGGAGCTGGTGGATGAGGGGCTGGTGAAAGCCCTTGGGGT
CTCCAATTTTCAGCCACTTCCAGATCGAGAAGCTCTTGAACAAACCTGGACTGAAATATAAACCAGTGACTAACCA
GGTTGAGTGTACCCATACCTCACACAGGAGAACTGATCCAGTACTGCCACTCCAAGGGCATCACCGTTACGGC
CTACAGCCCCCTGGGCTCTCCGGATAGACCTTGGGCCAAGCCAGAAGACCCTTCCCTGCTGGAGGATCCCAAGAT
TAAGGAGATTGCTGCAAAGCACAAAAAACCAGCCAGGTTCTGATCCGTTTCCATATCCAGAGGAATGTGAT
TGTCATCCCCAAGTCTGTGACACCAGCACGCATTGTTGAGAACATTCAGGTCTTTGACTTTAAATTGAGTGATGA
GGAGATGGCAACCATACTCAGCTTCAACAGAACTGGAGGGCCTGTAACGTGTTGCAATCCTCTCATTGGAAGA
CTATCCCTTCGATGCAGAATATTGAGGTTGAATCTCCTGGTGAGATTATACAGGAGATTCTCTTTCTTCGCTGAA
GTGTGACTACCTCCACTCATGTCCATTTTAGCCAAGCTTATTTAAGATCACAGTGAACCTAGTCCTGTTATAGA
CGAGAATCGAGGTGCTGTTTTAGACATTTATTTCTGTATGTTCAACTAGGATCAGAATATCACAGAAAAGCATGG
CTTGAATAAGGAAATGACAATTTTTTCCACTTATCTGATCAGAACAAATGTTTATTAAGCATCAGAACTCTGCC
AACACTGAGGATGTAAAGATCAATAAAAAAATAATAATCATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 641

MATFVELSTKAKMPIVGLGTWKSPLGKVKEAVKVAIDAGYRHIDCAYVYQNEHEVGEAIQEKIQEKAVKREDLEI
VSKLWPTFFERPLVRKA FEKTLKDLKLSYLDVYLHWPOGFKSGDDLFPKDDKGNAIGGKATFLDAWEAMEELVD
EGLVKALGVSNF SHFQIEKLLNKPGLKYKPV TNQVECHPYLTQEKL IQYCHSKGITVTAYSPLGSPDRPWAKPED
PSLLEDPKIKEIAAKHKKTAAQVLIRFHIQRNVIVIPKSVTPARIVENIQVFDFKLSDEEMATILSFNRNWRACN
VLQSSHLEDYPFDAEY

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FIGURE 642

GGTCGACGACGTGGCAGCCGGGATGCACTAGGCCAAAGCCAGCTGGGCTCCTGAGTCCGGTGGGTACTTGGAGAAC
TTACTACGTCTAGCTGGAGGATTGTAAATGTACCAATCAGCATGCTGTGTCTAGCTCAAGAACTCAAGCTCCATG
AGGAGATGTTTCATTGTGCGAGAGCAGTCATGATGGCCTGCACTCCACACAATGCAACAGAGTGAAAGAGCAGGTT
CTGCTTCTTTGGTGTAGTCCTGAAGCTTCCTAAGAACTTCACATCAGGTGATGGATAGGAGCAACCCTGTAAAA
CCAGCCTTAGACTATTTTTTAAACAGGCTGGTGAATTACCAGATCTCCGTCAAGTGCAGTAACCAGTTCAAGTTG
GAAGTGTGTCTTTTGAATGCAGAAAACAAAGTCGTGGACAACCAGGCTGGGACCCAGGGCCAGCTGAAGGTGCTG
GGTGCCAACTCTGGTGGCCGTACCTGATGCACGAACACCCCGCTACCTCTACTCGTGGGAGGATGGTGATTGC
TCACACCAAAGCCTTGACCCCTCCAGCCTGTGACCTTTGTGACCAACTCCACCTACGCAGCAGACAAGGGGGC
TCTGTATGTGGATGTGATCCGTGTGAACAGCTACTACTCTTGGTATCGCAACTACGGGCACCTGGAGTTGATTCA
GCTGCAGCTGGCCGCCAGTTTGAGAATTGGTGTAAAGACATACAATCCCATTATTAGAGCGCGTATGGAGTGG
AAACGCTTGTAGGGTTTACCAGTCTTTCCAGGGAAGTCCGATGAAGTGTCCAACAAAATGAGCGAGTGAACC
AAGAAGAGGATGACATTAGATCCAGGAGATACAACAGAGGAGATAATCTCCAGGATGCCTGTGAAGAAAGATCCC
TGGATCCCAGGATGATTATAGGACAAGTTGTTTATAATCCAGCAGGCCAGAAGACTTCCAGGGAACTCATTCAA
GGAGGTGAAAATGATGGATGACTCCTCCAAGATGAAAATGGACCAGCCGCAGTGCTCACGCCTGTAATACCAGCA
CTTTGGGAGGCTGAGGCAGGCGGATCACTTGAGGTCAGGAGTTTGAACTAGCCTGGCCAACGTGGCAAACTCC
ATCTCTATTAAAAATACAAAATTAGCCAGGCATAGTGGTGCATGCCTGTAGTCCCAGCTACTTGGGATGCCGAG
GCAGGAAGAATTGCTTGAACCTGGGAGGCAGAGTCTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGG
TGACAGAGCCACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 643

MDRSNPVKPALDYFLNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKVLGANLWWPYLMHEHPAYL
YSWEDGDCSHQSLGPLPACDLCDQLHLRSRQGGSVCGCDPCEQLLLLVSQLRAPGVDSAAAGRPV

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FIGURE 644

GCGGCCGCAAGCTCGGCACTCACGGCTCTGAGGGCTCCGACGGCACTGACGGCCATGGCGGTTCGAACCTCCCG
CTGGCGCTGGGCCTGGCCCTGGTCGCATTCTGCCTCCTGGCGCTGCCACGCGACGCCCGGGCCCGGCCGAGGAG
CGCATGGTCGGAGAACTCCGGGACCTGTCGCCCCGACGACCCGCAGGTGCAGAAGGCGGCGCAGGCGGCCGTGGCC
AGCTACAACATGGGCAGCAACAGCATCTACTACTTCCGAGACACGCACATCATCAAGGCGCAGAGCCAGCTGGTG
GCCGGCATCAAGTACTTCCTGACGATGGAGATGGGGAGCACAGACTGCCGCAAGACCAGGGTCACTGGAGACCAC
GTCGACCTCACCACCTTGCCCCCTGGCAGCAGGGGCGCAGCAGGAGAAGCTGCGCTGTGACTTTGAGGTCCTTG
GTTCCCTGGCAGAACTCCTCTCAGCTCCTAAAGCACAACTGTGTGCAGATGTGATAAGTCCCCGAGGGCGAAGGC
CATTGGGTTTGGGGCCATGGTGGAGGGCACTTCAGGTCCGTGGGCCGTATCTGTCACAATAAATGGCCAGTGCTG
CTTCTTGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 645

MARSNLPLALGLALVAFCLLALPRDARARPQERMVGELRDLSPDDPQVQKAAQAAVASYNMGNSIYYFRDTHII
KAQSQLVAGIKYFLTMEMGSTDCRKTRVTGDHVDLTTCPPLAAGAQQEKLRCDFEVLVVPWQNSSQLLKHNCVQM

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FIGURE 646

CGCTGCCACCATGGACAGTAGCACCTGGAGCCCCAAGACCACCGCGGTACCCGGCCTGTTGAGACCCACGAGCT
CATTGCAATGCAGCCGATATCTCCATCATCGTTATCTACTTCGTGGTAGTGATGGCCGTCGGACTGTGGGCTAT
GTTTTCCACCAATCGTGGGACTGTTGGAGGCTTCTTCCTGGCAGGCCGAAGTATGGTGTGGTGGCCGATTGGAGC
CTCCCTCTTTGCTAGTAACATTGGAAGTGGCCACTTTGTGGGGCTGGCCGGGACTGGGGCAGCTTCAGGCATCGC
CATTGGAGGCTTTGAATGGAATGCCCTGGTTTTGTGGTGGTGTGCTGGGCTGGCTGTTTGTCCCCATCTATATTAA
GGCTGGGGTGGTGACAATGCCAGAGTACCTGAGGAAGCGGTTTGGAGGCCAGCGGATCCAGGTCTACCTTTCCCT
TCTGTCCCTGCTGCTCTACATTTTACCAAGATCTCGGCAGACATCTTCTCGGGGGCCATATTCAATCTGGC
CTTAGGCCTGAATCTGTATTTAGCCATCTTTCTCTTATTGGCAATCACTGCCCTTTACACAATTACAGGGGGCCT
GGCGGCGGTGATTTACACGGACACCTTGACAGCGGTGATCATGCTGGTGGGGTCTTTAATCCTGACTGGGTTTGC
TTTTACGAAGTGGGAGGCTATGACGCCTTCATGGAAAAGTACATGAAAGCCATTCCAACCATAGTGTCTGATGG
CAACACCACCTTTAGGAAAAATGCTACACTCCAAGGGCCGACTCCTTCCACATCTTCCGAGATCCCCTCACGGG
AGACCTCCCATGGCCTGGGTTTCATCTTTGGGATGTCCATCCTTACCTTGTGGTACTGGTGCACAGATCAGGTCTAT
TGTGCAGCGCTGCCTCTCAGCCAAGAATATGTCTCACGTGAAGGGTGGCTGCATCCTGTGTGGGTATCTAAAGCT
GATGCCCATGTTTCATCATGGTGTATGCCAGGAATGATCAGCCGCATTCTGTACACAGAAAAAATTGCCTGTGTCTGT
CCCTTCAGAAATGTGAGAAATATTGCGGTACCAAGGTTGGCTGTACCAACATCGCCTATCCAACCTTAGTGGTGG
GCTCATGCCAATGGACTGCGAGGCCTGATGCTATCAGTCATGCTGGCCTCCCTCATGAGCTCCCTGACCTCCAT
CTTCAACAGCGCCAGCACCTCTTCACCATGGACATCTACGCCAAGGTCGCAAGAGAGCATCTGAGAAAGAGCT
CATGATTGCCGGAAGGTTGTTTATCCTGGTGCTGATTGGCATCAGCATCGCCTGGGTGCCCATTGTGCAGTCAGC
ACAAAGTGGGCAACTCTTCGATTACATCCAGTCCATCACCAGTTACTTGGGACCACCCATTGCGGCTGTCTTCCT
GCTTGCTATTTTCTGGAAGAGAGTCAATGAGCCAGGAGCCTTTTGGGACTGATCCTAGGACTTCTGATTGGGAT
TTCACGTATGATTACTGAGTTTGCTTATGGAACCGGGAGCTGCATGGAGCCCAGCAACTGTCCCACGATTATCTG
TGGGGTGCATACTTGTACTTTGCCATTATCCTCTTCGCCATTTCTTTTCATCACCATCGTGGTTCATCTCCCTCCT
CACCAAACCCATTCCGGATGTGCATCTCTACCGTCTGTGTTGGAGCCTGCGCAACAGCAAAGAGGAGCGTATTGA
CCTGGATGCGGAAGAGGAGAACATCCAAGAAGGCCCTAAGGAGACCATTGAAATAGAAAACACAAGTTCTCTGAGAA
GAAAAAGGAATCTTCAGGAGAGCCTATGACCTATTTTGTGGGCTAGAGCAGCACGGTGCACCCAAGATGACTGA
GGAAGAGGAGAAAGCCATGAAGATGAAGATGACGGACACCTCTGAGAAGCCTTTGTGGAGGACAGTGTTGAACGT
CAATGGCATCATCCTGGTGACCGTGGCTGTCTTTTGCCATGCATATTTTGCTGAGTCTACCTTTTGTCTGTAGA
TTTACCATGGCTGGACTCTTACTCACCTTCTTTAGTCTCGTCTGTGGTGTGGAAGGGAAATCAGCCAGTTGTA
AATTTTGCCAGGTGGATAAATGTGTACATGTGTAATTATAGGCTAGCTGGAAGAAAACCATTAGTTTGTCTGTTA
ATTTATGCATTTGAAGCCAGTGTGATACAGCCATCTGTACCTACTGGAGCCGAGAAAGGGAGTCCACTCAGTCAC
ATCCAGAAAAAGGCAGACTAAGAATCAGAAGCCATGTGATTGATGTCTGACGTGAGTCTGTCTCAGGTAGATTCC
GGGTGTCAGTGTGGTTTTATAATCCTTGAATATTGTTTTAGAAAACCTTTGGTCTCCCTGGTTCTGCCACTTTTCCT
GTCCGTCTCTCTCCCATTTTTTTTTTAAAAGAAAGCTGTTTTCCCTC

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FIGURE 647

MDSSTWSPKTTAVTRPVETHELIRNAADISIIVIFYFVVMAVGLWAMFSTNRGTVGGFFLAGRSMVWWPIGASLF
ASNIGSGHFVGLAGTGAASGIAIGGFENALVLVVVLGWLFVPIYIKAGVVTMPEYLRKRFGGQRIQVYLSLLSL
LLYIFTKISADIFSGAIFINLALGLNLYLAIFLLLAITALYTITGGLAAVIYDTLQTVIMLVGSLILTGF AFHE
VGGYDAFMEKYMKAIPTIVSDGNTTFQEKCYTPRADSFHIFRDPLTGDLPWPGFIFGMSILTLWYWCTDQVIVQR
CLSAKNMSHVKGCGILCGYLKLMPMFIMVMPGMISRILYTEKIACVVPSECEKYCGTKVGCTNIAYP TLVVELMP
NGLRGLMLSVMLASLMSSLTSIFNSASTLFTMDIYAKVRKRASEKELMIAGRLFILVLIGISIAWVPIVQSAQSG
QLFDYIQSITSYLGPPIAAVFLLAIFWKRVNEPGAFWGLILGLLIGISRMITEFAYGTGSCMEPSNCPTIICGVH
YLYFAIILFAISFITIVVISLLTKPIPDVHLYRLCWSLRNSKEERIDLDAEEENIQEGPKETIEIETQVPEKKKG
IFRRAYDLFCGLEQHGAPKMTTEEEKAMKMKMTDTSEKPLWRTVLNVNGIILVTVAVFCHAYFA

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FIGURE 648

ACAGACAGAAACGAGGGAAGAGAGAGAAATTGGGGACCCTGAAGAAAGGGGGCCAGCAGCAGGTAGGTGCCATCA
GGGACAAGAACAGCACCTCCCAGGGTGGGAGACCCCAGGCCTTTCTGGCAGCAGGTCTGGATGGAAAGTGGACAG
GAGGCTCACCCGTCTGCATCCCTGCTCCTGCCCTGCTCGGCTACAAAACCAAAGGGACAGCAGCTGACCACA
CCCCGGTAGCCACTCCTGCATAAAGCTCTCCCCCTCCTGTGACCAGCTGAGGACCTCAGGCTGCAGCGGAGCCATG

CCCAGATACACGGTGACGTACGTGGGGAATGGCTGGCAGTGCCCTGCCAGGACGCGCAGCTCACTGTGGGCTGG
CTGGGCGGGAGGCCGTGAGGCGCTATATCAAGAATAAGCCCCACAATGGTGGCTTCACCTCCGTGGATGACGCG
CACTTCCTTGTGCGCCGGTGCAAGGGCCTGGGCCTGCTGGACAACGAGGACCGGCTCGAGGTGGCCCTAGAGAAC
AACGAGTTCGTGGAAGTGGTTATAGAGGGTGATGCCATGTCTCCTGACTTCATTCCATCTCAACCAGAAGGAGTT
TATCTATACAGCAAGTACCGGGAGCCTGAAAAGTACATCGAGTTAGATGGAGACCGTCTGACCACGGAGGATCTG
GTCAACTTGGGAAAGGGACGCTACAAAATAAAGCTCACCCCAACAGCTGAGAAGAGGGTGACAGAAATCCAGGGAG
GTCATAGATAGCATCATAAAAGAGAAAACAGTTGTTTACGGTATTACTACAGGTTTTGGGAAATTTGCCAGAACT
GTAATTCCTATCAATAAGCTACAGGAGCTTCAGGTCAACTTAGTACGCTCACATTCTTCAGGTGTTGGGAAACCA
CTAAGTCCTGAGAGGTGTCGGATGCTCTTGGCTTTAAGGATCAATGTCTTAGCCAAAGGATACAGTGGCATTTC
CTGGAGACCCCTCAAACAAGTCATAGAAATGTTTAAATGCCTCCTGCCTGCCCTATGTCCCAGAGAAAGGAACCGTT
GGTGCCAGTGGAGACCTTGCCCCACTCTCTCATCTTGCTCTTGGGCTAGTTGGAGAAGGGAAGATGTGGTCTCCG
AAGAGTGGCTGGGCTGATGCTAAATACGTGCTAGAAGCCCATGGATTGAAACCAGTTATTTTAAACCAAAAGAG
GGCCTGGCACTCATCAATGGGACGCAGATGATCACATCCCTGGGCTGTGAAGCTGTAGAGCGAGCCAGTGCTATT
GCACGGCAGGCTGACATTGTGGCAGCCCTGACCCTTGAGGTGCTGAAGGGCACCACCAAAGCCTTTGACACTGAC
ATTCATGCTCTTCGACCTCACCGTGGGCAAATTGAAGTTGCTTTTCGGTTTCGGTCACTCTTGGACTCAGATCAC
CACCCATCAGAAATAGCAGAGAGTCACAGGTTCTGTGATCGCGTCCAGGATGCATACACCTTGCGCTGCTGTCCA
CAGGTCCATGGTGTGGTGAATGATACAATAGCATTGTGAAGAACATCATTACCACAGAACTGAACAGCGCAACA
GATAATCCTATGGTCTTTTGCCAATAGGGGAGAGACAGTTTCTGGAGGAACTTCCATGGTGAATACCCAGCCAAA
GCCCTAGACTACTTGGCCATTGGCATCCATGAACCTTGCTGCAATCAGTGAGAGAAGAATCGAGCGGCTCTGCAAT
CCCTCCCTCAGTGAGCTGCCTGCCTTCCTGGTGGCTGAAGGTGGTCTGAACCTCTGGGTTTCATGATAGCTCACTGC
ACGGCAGCAGCCCTTGTTTTCTGAGAAACAAGGCTCTGTGCCATCCCTCGTCTGTTGACTCCCTCTCCACCAGCGCA
GCCACGGAGGACCAGTCTCCATGGGAGGATGGGCAGCAAGGAAAGCCCTCAGGGTCATCGAGCATGTGGAGCAA
GTGCTGGCCATCGAGCTCCTTGACAGCTGCCAGGGCATAGAGTTTCTACGTCCCCTGAAAACAACCACTCCGCTG
GAGAAGGTCTATGACCTGGTGCCTCTGTTGTAAGGCCCTGGATAAAAGATCGCTTCATGGCCCCGGACATCGAG
GCAGCCCACAGGCTGCTCCTGGAGCAGAAGGTTTGGGAAGTAGCTGCTCCATACATTGAAAATAACAGAATGGAG
CATATTCCAGAATCAAGACCTCTTTCTCCAACAGCCTTTTCACTGCAATTTCTGCACAAGAAATCCACCAAAATC
CCGGAGTCTGAGGACCTTTTAATGGGCTTTGTTCATGAAGTAGCAGATGAGAGGGCAGTCAGTTTAGCACAAAGCAA
TACTAGGCTGAAGGAGAGACCTGAGAACTTTCCTAGGTAGATCAATCCATTGTATCATTACAGTTCTTCTAAAGCC
TACGTTGGTTAGGCTGATGGCAGTATTATAGTTGCTAAATTCAGCACTGTGTTTCTGTTGTCGTGGTTCAAGACC
CACCAGGTATTTTTCAGATTATAAACTTTTCTTTCTTTCTTAAACAGTTTCAACAGGCCACTCACTCTTAAGGGTG
AGAAGAATAACCACAATTGTATGTGCCTGTTTTTTTACTCTTAGCATTAGATGAATTCAAATTTGGAAACAGATTG
ATAGCAATTTTTTCTAAAAACATTAGACTTTTGTTAACCTTTTTTTTTTTTTTTTTTAAATTTGCTTCAACAAGCTCT
CCACCAGTTGACTTTCTTTGGCTAATTTTACTTTGCATGATATGCCTTAATATGCCTTCATAAATAACCATTTTA
AGTCATAATTTGTCCTTAAGCTGCTTTTTTCTTCTATTAATTGGATCATAGTAAAGAGTAGTCAATAGGGTCTTC
AGCTATTAATTGTAGAGGTGATTAACCAACAAGGAGTTTCATGTGCAAAGGAGATAAGGAATGAATATAAAGA
TTGCTATTTGGGTGGCTCTTATTAACCTGTGTATTTTGTACTTATCACTACACGTATCCCCCAAATGCTTACATG
GGAGTTTGAGGTTAGTATTTTCACTTCCTGGTGTAGTACTCTATTACATTCTTATTGTAACCTTCCTCATT
CACAGATAAGGAATCTTTGGGGATTAACCAACCTCCTTTCTGTAATGGTAATCATTAAATAAG

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FIGURE 649

MPRYTVHVRGEWLAVPCQDAQLTVGWLGREAVRRYIKNKP DNGGFTSVDDAHFLVRRCKGLGLLDNEDRLEVALE
NNEFVEVIEGDAMSPDFIPSQPEGVYLYSKYREPEKYIELDGDRLTTEDLVNLGKGRYKIKLTPTAEKRVQKSR
EVIDSIIKEKTVVYGITTGFGKFARTVIPINKLQELQVNLVRSHSSGVGKPLSPERCRLMLALRINVLAKGYSGI
SLETLKQVIEMFNASCLPYVPEKGTVGASGDLAPLSHLALGLVGEKMWSPKSGWADAKYVLEAHGLKPVILKPK
EGLALINGTQMITSLGCEAVERASAIARQADIVAALTLEVLKGTTKAFDTDIHALRPHRGQIEVAFRFRSLDSD
HHPSEIAESHRFCDRVQDAYTLRCCPQVHG VVNDTIAFVKNIITTELNSATDNPMVFANRGETVSGGNFHGEYPA
KALDYLAIGIHELAAISERRIERLCNP SLSELP AFLVAEGGLNSGFMI AHCTAAALVSENKALCHPSSVDSLSTS
AATEDHVSMGGWAARKALRVIEHVEQVLAIELLAACQGIEFLRPLKTTTTPLEKVYDLVRSVVRPWIKDRFMAPDI
EAAHRLLEQKVWEVAAPYIEKYRMEHIPESRPLSPTAFSLQFLHKKSTKIPESDL

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FIGURE 650

CTTAACTCCTGATCTTTTGTAAAACCTATTGCTAGTCATAATGGATTTCTATAACCTGAAAGTTGATATAATACAG
CACGTGGAGCACTTTAAAAACAAAGAACTTGAAAAATAATTTTATTTTTTACCTTTACATGGTGTGTTCTAGACT
ACTGCATTATGACTACATAAACCTACCTGAGCTCTTACAAGTACAGAATTGTGAGACAGAGGTTTTGTGATGGAA
AACATACACATAGGGAAAAATACCAAACCTGAGCAATATAAATTTACAGCTCACATCTTAGCCAGTACAAAGAAA
CTTTCACATGGGGTGAATATTATAATACTTGAATTTGAGACTTAATACTGTATATGAATTAATCATCCCACTGTA
ATAACTGACATCTTCAAATAGTTGGGCTTATGAAAAATTTGACTAAGACATTTTATTTTATACTTTATGTAAATG
TGAAATAAGTTCTGGTCATATAAATATGTAGAATGCATGTGTGTGAACCTCTATGAAGTGAAGTGTGGTGGCCTTT
TATGTTTCAGAGTACTCAAGTGTACAATTGATTTATATAAAAAATGCAAAATGAACCTCAGGTCATTTTGAAATTAA
TATTAATATTTTTTGTGTTTAACTTTAAAGCTAGCTCCCTAACTTTATATATTTTTTGGGAAAAAATACCTAAA
AACCTCAGCCTACAAAGACTCTCAGAAATGCCAAAGATTTTCAAGGAAATTCATATTATATATTTCAAAAATGAT
TTATCAATGTTATCTACCAAAGAAATAATTTTATTTTTCCCTTTGGGGAGATATTATCCTCTAATATGAGAAT
CAGATCCCTAGATTCTATTTCTACCTATACTATTAACTCAACCTTGAACCTGAGCTTGGTTGTTTCTGTGCCTT
AGTTTCTCCACTCGTAAACAATTTCTATTAATAATTTGTTTAAACACCAACCAAAATTTACCATATGTATTCATTC
TCTTGCTTAAAGATCACTTCTTAACTTACATTTGGCTCTCACCCTCTAAAAATTTGTAGTTTGGAGAGTAACTG
AAAGCACAAATTTAAGAAACATGTTTTCCTCACAAAATATATTGTAATCTGATTTTCTATCTTGTATTTCATGCA
GAAATTTGGAGAAAATGTGTATTGTCTTGTGCCATTCTGCAATATGAATTTCTCAGGAAAAAGATGTTTCAATGG
CAATACTTTCTTAAATAATTCAAGATGGGTGTGAGGACCTATCTTATTAGTTTAGTGCTGTGTTAACCATTTGTG
AATTACTTCTTGTTTAAAGGAAGTTGTCAAAAAATTTTAAAGATTCTAAATGGAATACACGAATAAAGTAAGCCTT
AGAATAGAAACCTCACAAAAGTTGTCAATTTGCGGTTGATAATTAACATAGGTGTTTTATTCTCTCAACTCCTTA
GTACCAGAGCCAAATACAATTTAGTTTTAGAAATCTTATCAATATTGTTCTATTTACCTACTTATAAATCTGCA
GATAACCACTTGAACCAGGCAAAATACACTGAAGATAAAGGTTATTTCTTTTTTTAGCTTTGAATTTGTCATGACC
ATTTTAGTCTTGCAGATAGCAGGGCAGCCCCCTGGGGCAAGGATTTACTCTGGGAGGTACCGTTAAGAGCCTTCT
TTCCCCCTTTGAAAGATCCTTTTACAATGTTAAAGTATACTAGTTGCAAGAACAAGCAGGATTTGCAGGTTGCTT
TACCAGCATGAGTCTCATTTTTCTGGCTTAAATCTGGGACTGTGAAATATTCCATAGGAAAGTGAATGTTATT
TTGCAGAATTAGCCTCTTACATAAAAAGTATTTGTTGAAGTGTCTTTAAATTTGCTATCATGAGCAAAACTGGTTG
CTGTAATGCTTGTGTTTTCTGTATTTATTTACACATTAAATTTCTTACAAAACAAAATGTGTTTCGTTTGTGTTTATAG
TAAGATGTTTTATTTTGAACCTTATTTAAATGTTTATTTGTTAGAGAAAACCTAATTTGTTAATATAGATCTTAACT
AGTAACTATTAAGCAGGGATGTTTGTTCCAATATTCTTGAATAACAATCACCACAAACAAC

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FIGURE 651

MIYQCYLPKEIILFFPFGEILSSNMRI⁷³⁶SLDSISTYTIKLNLEPELGCFALVSPLVNNFL

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FIGURE 652

TGCGGGTGAGGCTGGCGCCCGTACCA**ATG**AGCGAGGCGGACGGGCTGCGACAGCGCCGGCCCCCTGCGGCCGCAGGT
CGTCACAGACGATGATGGCCAGGCCCGGAGGCTAAGGACGGCAGCTCCTTTAGCGGCAGAGTTTTCCGAGTGAC
CTTCTTGATGCTGGCTGTTTCTCTCACCGTTCCCCTGCTTGGAGCCATGATGCTGCTGGAATCTCCTATAGATCC
ACAGCCTCTCAGCTTCAAAGAACCCCCGCTCTTGCTTGGTGTTCTGCAATCAAATACGAAGCTGCGACAGGCAGA
AAGGCTGTTTGAAAATCAACTTGTTGGACCGGAGTCCATAGCACATATTGGGGATGTGATGTTTACTGGGACAGC
AGATGGCCGGGTGCTAAAACTTGAAAATGGTGAAATAGAGACCATTGCCCGGTTTGGTTGCGGCCCTTGCAAAAC
CCGAGATGATGAGCCTGTGTGTGGGAGACCCCTGGGTATCCGTGCAGGGCCCAATGGGACTCTCTTTGTGGCCGA
TGCATACAAGGGACTATTTGAAGTAAATCCCTGGAAACGTGAAGTGAACTGCTGCTGCTCCTCCGAGACACCCAT
TGAGGGGAAGAACATGTCCTTTGTGAATGATCTTACAGTCACTCAGGATGGGAGGAAGATTTATTTACCGATTTC
TAGCAGCAAATGGCAAAGACGAGACTACCTGCTTCTGGTGATGGAGGGCACAGATGACGGGCGCCTGCTGGAGTA
TGATACTGTGACCAGGGAAGTAAAGTTTTATTGGACCAGCTGCGGTTCCCGAATGGAGTCCAGCTGTCTCCTGC
AGAAGACTTTGTCTGGTGGCAGAAACAACCATGGCCAGGATACGAAGAGTCTACGTTTCTGGCCTGATGAAGGG
CGGGGCTGATCTGTTTGTGGAGAACATGCCCTGGATTTCAGACAACATCCGGCCCAGCAGCTCTGGGGGGTACTG
GGTGGGCATGTCGACCATCCGCCCTAACCTGGGTTTTCCATGCTGGATTTCTTATCTGAGAGACCTGGATTAA
AAGGATGATTTTTAAGCTCTTTAGTCAAGAGACGGTGATGAAGTTTGTGCCGCGGTACAGCCTCGTCTAGAACT
CAGCGACAGCGGTGCCTTCCGGAGAAGCCTGCATGATCCCGATGGGCTGGTGGCCACCTACATCAGCGAGGTGCA
CGAACACGATGGGCACCTGTACCTGGGCTCTTTCAGGTCCTTCTCTGCACTCAGCCTCCAGGCTGTT**TA**
GCCCTCCAGATAGCTGCCCCTGCCACGCAGGCCAGGAGTCTTCACTCAGGCACCAGGCCTGGTCCAGGAGGA
GCTGTGGACACAGTCGTGGTTCAAGTGTCACATGCACCTATTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTC
ATTCTCGAGGATGCCCCGGGCCCCACCTGGGCTTGCTTTCTGTTTAGAGGGAAGTGTAACATATCTGCCATGAG
GAACATAAATTCTATGTAAAGCCATTTTCTCTTAAACAAAACAAAACCTTTCTAAGTACAGTCATTCTCTAGGATTT
GGGAAGCTCCTTGCACTTGGAACAGGGCTCAGGTGGGTGGAGCAGTAAGGCACTACCCAGAGAGCTTGCTGCTGC
GGCCCTGTCTGCGGCCTCAAAGTTCTTCTTTACTATATATAACGTGCGGTACATACCTTTCTTCGTTGTGGTGGG
GATGGAAGAGCAGAGGGAGCATGGCCCAGGGGTGTTGAGGCCAGCGGTGAGAGCCGTGTTAGCCAAGACATGGAA
CTGTGTTCTCAAGGGTTATGTGGGGCGTGGGCTCTCCATAGTGTGTATGAAAAGCTTGTTGACTCTAGCGGCTCA
GAGAGGACTTTGCTGGGTTTCTTCTGTGAATATCTCCGTGCTGACCATGCTGGAATTGGATGATTCTGCAATTC
GGGACCTACTGCAGGGGTCCGTTTAGTAACGCTTGCTGTGATCTTTGTTCTTGACCTCTAGACCCCAAGATGT
GAACAGTGCACGTGTTAATGTCATCTTTGCTCATGTGTTATAAGCCCCAAGTTGCTGTATATTTTCAAGATATG
TCTACACACTGGTCATGATTTTGATAATAAATAACGATAAATCGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 653

MSEADGLRQRRPLRPQVVTDDGQAPEAKDGSSFSGRVFRVTFLMLAVSLTVPLL GAMMLLESPI DPQPLSFKEP
PLLLGVLHPNTKLRQAERLFENQLVGPESIAHIGDVMFTGTADGRVVKLENGE IETIARFGSGPCKTRDDEPVCG
RPLGIRAGPNGTLFVADAYKGLFEVNPWKREVKLLLSSETPIEGKNMSFVNDLTVTQDGRKIYFTDSSSKWQRRD
YLLLVMEGTDDGRLL EYDTVTREVKVLLDQLRFPNGVQLSPAEDFVLVAETTMARIRRVYVSGLMKGGADLFVEN
MPGFDPNIRPSSSGGYWVGMSTIRPNPGFSMLDFLSERPWI KRMIFKLF SQETVMKFVPRYSLVLELSDSGAFRR
SLHDPDGLVATYI SEVHEHDGHL YLGSFRSPFLCRLSLQAV

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FIGURE 654

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTTGCCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCACTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAACGCGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATACCCCCAGGGACAGCATATCAGAGCTTTGAACAGGATACTTTT
GTGGAACCTCTATGGGAACAATGCAGCAGCCGAGAGCCGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCCTGACG
GGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCACTCTTCAGTCGGAATGACCAGACACTGACCATCCACTC
TACCCTCCCACCCCTTCTCTGCTCCACCATCCTCCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATG
CAGCCCATGCCCACCTGCCCATCACAGGGTTGGGCCCAGATCTGGTCCCTTGCCAGCTAGTTTTCTAGAATTTATC
ACACTTCTGTGAGACCCCAACCTCAGTTCCCTTGGCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAA
GGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGGGCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCCT
TAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTTGAAAGTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGA
TTGCCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGATCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTC
CTTTCCTTCCATCCCTACCCCTAAGAGCCATTTAGGGGGCCACTTTTGAAGTAGGGATTGAGGCTGCTTGGGATAA
AGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGACTGGCTAGAGTCCCTCACTCCCAGTCCAAATGTCTCCAG
AAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCT
AGGGTGGCCCTTGCAAGTTGAGCACCACCCTAGTCCCTTCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAA
CTGGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGGCCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCA
TCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAG
CTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTA
GGGCTGACTAGAAGGGCCAGTCTGCTGCTGGCCAGGCAGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGG
CTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTCAGGCCTCCCTCTCTCTTCTGCTCCACCCTTGGCCTGTCT
CATCCCCAGGGGTCCAGCCACCCCGGGCTCTCTGCTGTACATATTTGAGACTAGTTTTTATTCTTGTGAAGAT
GATATACTATTTTTGTTAAGCGTGTCTGTATTTATGTGTGAGGAGCTGCTGGCTTGCAAGTGCAGCTGCAGCTGGA
GAGCTGGTGGCCGAGATTGGACGGCCTGATGCTCCCTCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTT
GGCTCCTGAGGGGCATCTGCCCCCTCCCCAACCCCCACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTG
AAGGTGAAAGTGCAGTTCAGTAATAAACTGTGTTTACTCAGTGAIAAAAAAAAAAAAAAAAAA

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FIGURE 655

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGWDTFVELYGNNAAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 656

CCAGTCTGCGGACCGTTTCGGAGCAACGTGGCGGCCCTTGCCCGCCAGCAATGCCTAGGAGCAGCCAAGCAGGGAC
CCGTCGGAAACCCCTTCATCCAGCCTTTCTCTGGCGCATGGAGAACCTGGGGGTTCGGCGAAGGGGCAGAGGCTTGC
AGCAGGTTGAGTCGCTCTCGCGGCCGCCACAGCATGACCAGAGCCCCGAAGCACCTGTGGCGGCAACCCCGGCGC
CCCATCCGCATCCAACAGCGCTTCTATTTCGGATCCGGACAAGTCCGCGGGCTGCCGCGAGAGGGACCTGAGCCCCG
CGGCCGGAGCTCAGGAAGTCGCGGCTCTCCTGGCCCGTTTCTCCTGCAGGCGCTTTGACCTGGAAAATGGGCTC
TCGTGTGGGAGGAGGGCCCTGGACCCTCAGTCCAGCCCTGGCCTGGGCGGATTATGCAGGCTCCAGTCCCGCAC
AGCCAGCGGCGCGAGTCCTTCTGTACCGCTCAGATAGCGACTATGAACTCTCGCCCAAGGCCATGTCTCGGAAC
TCCTCTGTGGCCAGCGACCTACATGGAGAGGACATGATTGTGACGCCCTTTGCCAGGTCTGGCCAGTCTGCGG
ACCGTTTCGGAGCAACGTGGCGGCCCTTGCCCGCCAGCAATGCCTAGGAGCAGCCAAGCAGGGACCCGTCGGAAAC
CCTTCATCCAGCAATCAGCTCCCTCCTGCAGAGGACACGGGGCAGAACTGGCATTGGAGACGCTAGACGAGCTG
GACTGGTGCCTGGATCAGTTGGAGACGCTGCAGACCCGGCACTCGGTGGGGGAGATGGCCTCCAACAAGTTCAAG
CGGATCCTGAACCGGGAGTTGACCCACCTGTCCGAAACCAGCCGCTCCGGGAACCAGGTGTCCGAGTACATCTCC
CGGACCTTCTTGACCAGCAGACCGAGGTGGAGCTGCCCAAGGTGACCGCTGAGGAGGCCCCACAGCCCATGTCC
CGGATCAGTGGCCTACATGGGCTCTGCCACAGTGCCAGCCTCTCCTCAGCCACTGTCCCACGCTTTGGGGTCCAG
ACTGACCAGGAGGAGCAACTGGCCAAGGAGCTAGAAGACACCAACAAGTGGGGACTTGATGTGTTCAAGGTGGCG
GACGTAAGTGGGAACCGGCCCTCACAGCTATCATATTCAGCATTTTTCAGGAGCGGGACCTGCTGAAGACATTC
CAGATCCCAGCAGACACACTGGCCACCTACCTGCTGATGCTGGAGGGTCACTACCACGCCAATGTGGCCTACCAC
AACAGCCTACATGCCGCCGACGTGGCCAGTCCACGCATGTGCTGCTGGCTACGCCCGCCCTCGAGGCTGTGTTT
ACAGACTTGGAATCCTGGCTGCCCTCTTTGCAAGCGCCATCCACGACGTGGACCATCCTGGGGTCTCCAACCAG
TTTCTGATTAACACCAACTCAGACGTGGCGCTTATGTACAACGACGCCTCGGTGCTGGAGAACCATCACCTGGCT
GTGGGCTTCAAGCTGCTGCAGGCAGAGAACTGCGATATCTTCCAGAACCTCAGCGCCAAGCAGCGACTGAGTCTG
CGCAGGATGGTCATTGACATGGTGTGGCCACAGACATGTCCAAACACATGAACCTCCTGGCCGACCTCAAGACC
ATGGTGGAGACCAAGAAGGTGACAAGCCTCGGTGTCTCCTCCTGGACAACCTATTCCGACCGAATCCAGGTCTTG
CAGAACCTGGTGCATGTGCTGATCTGAGCAACCCACCAAGCCGCTGCCCTGTACCGCCAGTGGACGGACCGC
ATCATGGCCGAGTTCTTCCAGCAGGGAGACCGCGAGCGTGTAGTCGGGCTGGACATCAGTCCCATGTGTGACAAG
CATACGGCCTCAGTGGAGAAGTCCCAGGTGGGTTTCAATTGACTACATTGCTCACCCACTGTGGGAGACTTGGGCT
GACCTGGTCCACCCAGATGCACAGGACCTGCTGGACACGCTGGAGGACAATCGAGAGTGGTACCAGAGCAAGATC
CCCCGAAGTCCCTCAGACCTCACCAACCCGAGCGGGACGGGCTGACAGATTCCAGTTTGAAGTACTCTGGAG
GAGGCAGAGGAAGAGGATGAGGAGGAAGAAGAGGAGGGGGAAGAGACAGCTTTAGCCAAAGAGGCCCTTGAGTTG
CCTGACACTGAACTCCTGTCCCTGAAAGCCGGCCAGACCCTGGGGACTTACCCCTCGACAACCAGAGGACTTAG

GGCCAGCCCTGCGTGAAGTGCAGGGGCAATGGATGGTAAAGCCCTTTGGCTCTTGGCAGGCAGACTTTCCAGGAA
GAGGCTCCATGTGGCTCCTGCTTCACTTTCCACCCATTTAGGGAGACAATCAAGCTCTTAGTTATAGGTGGCTC
CCAGGGTCTAATTGGAGGCACCTGGCTGGGGTCCACTCTGACCCTAGACTTGCCTAAAAGAGCTCTCTAAGGGGC
AGCCTCTTACGATGCCCTGGTGTCTTCTCCTGGGCTTCTATCCCTGTGAGGAGAGGTGTGTCTGCTGGAGCCT
CTAGTCCACCCTCTCCAGTGGTCACTCTTGAGTCACATCTGTCACTTAATTATTTCTTCTTATCAAATATTTA
TTGCTCATCTACTTCGGGCCAGCTTTCTGCCTCTGTAGTAGCCCTGCACAAAGGGTGGGGAGTCAGGAGACCATC
CCAAAGGCATCTCCCTGTCTTCTCTACCAAGCGGCTCTCTGCAAGAGCATGGAAATGTGAGTGGGGAAAATTTT
CAGCACCAAAGCTTCACTCATAACCCAGTTTGTCTTCTGAAACTACGGTAGGGGGCAGGAAGAGGAGCAGAAAAGA
AGGGCTGGGCAAGGCATAGTGGCTTATGCCTGTAATCCCGGTACTTTGGGAGGCTGAGGTGGGAGGACTGCTTAA
GCTCAGGAGTTTGGAGACCAGCCTGGGCAACATAGCAAGACCCCAACCTCTCTGAAAAAATAATAGCCAGGCA
TGGTGGTGTGCACCTGAGAATCCAGCTACTCAGAAGGTTGAGACAAAGGGGATCGCTTGAGCCAGGAGTTGGA
GGCTGAAGAGAGCTATGACTGCATCACTGCCTCCAGCCTGGGCAACACAGCAAGATCCTGTCTAAAAATAAAAA
GAAAAGAGAAGGAAAGGAAAGAGACGGGGCTCTGAGGCCGAGCACAGTGGCCCATGCCTATAATCCAGCACTTT
GGGAGGCTGAGGCAGGTGGATCACCTGAGGTTAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCATCT
CTACTAAAAATACAAAAATTGGCTGGGCATGGTGGCGGGTGCCTGTAATCCAGCTACTGGGGAGGCTGAGGCAG
GAGAATCACTTGAATTCAGGAGGTGGAGGTTGCAGTGAGCCGACATCATGCCACTGCACTCCAGCCTGGGGCTGA
CAGAGCAAGACACTGTCTCAAAAAAGAAAAAAAAAAAAAAAAAAAA

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FIGURE 657

MENLGVGEGAEACSRLSRSRGRHSMTRAPKHLWRQPRRPIRIQQRFYSDPKSAGCRERDLSRPPELRKSRLSWP
VSSCRRFDLENGLSGRRALDPQSSPGLGRIMQAPVPHSQRRRESFLYRSDSDYELSPKAMSRNSSVASDLHG EDM
IVTPFAQVLASLRTVRSNVAALARQQCLGA AKQGPVGNPSSSNQLPPAEDTGQKLAETLDEL DWCLDQLET LQT
RHSVGEMASNKFKRILNRELTHLSETSRSGNQVSEYISRTFLDQQTEVELPKVTAE EAPQPM SRISGLHGLCHSA
SLSSATVPRFGVQTDQEEQLAKELED TNKWGLDVFKVADVSGNRPLTAIIFSIFQERDLLKTFQIPADTLATYLL
MLEGHYHANVAYHNSLHAADVAQSTHVLLATPALEAVFTDLEILAALFASAIHDVDHPGVSNQFLINTNSDVALM
YNDASVLENHHLAVGFKLLQAENCDIFQNL SAKQRLSLRRMVIDMVLATDMSKHMNLLADLKT MVETKKVTS LGV
LLLDNYS DRIQVLQNLVHCADLSNPTKPLPLYRQWTD RIMAEFFQQGDRERESGLDISPMCDKHTASVEKSQVGF
IDYIAHPLWETWADLVHPDAQDLLDTLEDNREWYQSKIPRSPSDLTNPERDGPDRFQFELTLEEAE EEEEEEE
GEETALAKEALELPDTELLSPEAGPDPGDLPDLNQRT

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FIGURE 658

AATTCTAGAAGTCCAAATCACTCATTGTTTGTGAAAGCTGAGCTCACAGCAAAACAAGCCACCATGAAGCTGTCTG
GTGTGTCTCCTGCTGGTACGCTGGCCCTCTGCTGCTACCAGGCCAATGCCGAGTTCTGCCCAGCTCTTGTTTCT
GAGCTGTTAGACTTCTTCTTCATTAGTGAACCTCTGTTCAAGTTAAGTCTTGCCAAATTTGATGCCCCCTCCGGAA
GCTGTTGCAGCCAAGTTAGGAGTGAAGAGATGCACGGATCAGATGTCCCTTCAGAAACGAAGCCTCATTGCGGAA
GTCCTGGTGAAAATATTGAAGAAATGTAGTGTGTGACATGTAAAACTTTCATCCTGGTTTCCACTGTCTTTCAA
TGACACCCTGATCTTCACTGCAGAAATGTAAAGGTTTCAACGTCTTGCTTTAATAAATCACTTGCTCTAC

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FIGURE 659

MKLSVCLLLVTLALCCYQANAFCPALVSELLDFFFISEPLFKLSLAKFDAPPEAVAAGLVKRC TDQMSLQKRS
LIAEVLVKILKKCSV

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FIGURE 660

AGAACTAGTCTCGAGTTTTTTTTTGTCTGTCCTGGATTGGAGCCGTCCCTATAACCATCTAGTTCCGAGTACAAA
CTGGAGACAGAAATAAATATTAAAGAAATCATAGACCGACCAGGTAAAGGCAAAGGGATGAATTCCTACTTCACT
AACCCTTCCTTATCCTGCCACCTCGCCGGGGGCCAGGACGTCTCTCCCAACGTCGCCCTCAATTCACCGCCTAT
GATCCAGTGAGGCATTTCTCGACCTATGGAGCGGGCGTTGCCCAGAACCGGATCTACTCGACTCCCTTTTATTTCG
CCACAGGAGAATGTCGTGTTTCAGTTCCAGCCGGGGGCCGTATGACTATGGATCTAATTCCTTTTACCAGGAGAAA
GACATGCTCTCAAACCTGCAGACAAAACACCTTAGGACATAACACACAGACCTCAATCGCTCAGGATTTTAGTTCT
GAGCAGGGCAGGACTGCGCCCCAGGACCAGAAAGCCAGTATCCAGATTTACCCCTGGATGCAGCGAATGAATTCG
CACAGTGGGGTCGGCTACGGAGCGGACCGGAGGCGCGGCCGCCAGATCTACTCGCGGTACCAGACCCTGGAAGT
GAGAAGGAATTTCACTTCAATCGCTACCTAACGCGGCGCGGCCGCATCGAGATCGCCAACGCGCTTTGCCTGACC
GAGCGACAGATCAAAATCTGGTTCCAGAACCGCCGGATGAAGTGGAAAAAGAATCTAATCTCACATCCACTCTC
TCGGGGGGCGGCGGAGGGGCCACCGCCGACAGCCTGGGCGGAAAAGAGGAAAAGCGGGAAGAGACAGAAGAGGAG
AAGCAGAAAGAGTGAACAGGACTGTCCCTGCCACCCCTCTCTCCCTTTCTCCCTCGCTCCCCACCAACTCTCCCC
TAATCACACACTCTGTATTTATCACTGGCACAATTGATGTGTTTTGATTCCCTAAAACAAAATTAGGGAGTCAAA
CGTGGACCTGAAAGTCAGCTCTGGACCCCTCCCTCACCGCACAACCTCTCTTTCTCCACGCGCCTCCTCCTCCTC
GCTCCCTTGCTAGCTCGTTCTCGGCTTGCTCTACAGGCCCTTTTCCCGTCCAGGCCTTGGGGGCTCGGACCCTGA
ACTCAGACTCTACAGATTGCCCTCCAAGTGAGGACTTGGCTCCCCACTCCTTCGACGCCCCACCCCCGCCCC
CGTGCAGAGAGCCGGCTCCTGGGCCTGCTGGGGCCTCTGCTCCAGGGCCTCAGGGCCGGCCTGGCAGCCGGGGAG
GGCCGGAGCGGAGGGCGCGCCTTGGCCCCACACCAACCCCGAGGGCCTCCCGCAGTCCCTGCCTAGCCCCCTCTG
CCCCAGCAAATGCCAGCCAGGCAAATTGTATTTAAAGAATCCTGGGGGTCATTATGGCATTTTACAAACTGTG
ACCGTTTCTGTGTGAAGATTTTAGCTGTATTTGTGGTCTCTGTATTTATATTTATGTTTAGCACCGTCAGTGT
CCTATCCAATTTCAAAAAAGGAAAAAAGAGGGAAAATTACAAAAAGAGAGAAAAAAGTGAATGACGTTTGT
TAGCCAGTAGGAGAAAATAAATAAATAAATAA

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FIGURE 661

MNSYFTNP SLSCHLAGGQDVLPNVALNSTAYDPVRHFSTYGAAVAQNRIYSTPFYSPQENVVFSSSRGPYDYGSN
SFYQEKDMLSNCRQNTLGHNTQTSIAQDFSSEQGRTAPQDQKASIQIYPWMQRMNSHSGVGYGADRRRGRQIYSR
YQTLLEKEFEHFNRYLTRRRRIEIANALCLTERQIKIWFQNRMRKWKKE SNLTSTLSGGGGGATADSLGGKEEKR
EETEEEEKQKE

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FIGURE 662

AACACCATGAGGGGCCCTGGTGCTTCTGCTGTCCCTGTTCTGCTGGGTGGCCAGGCCCAGCATGTGTCTGACTGG
ACCTACTCAGAAGGGGCACTGGACGAAGCGCACTGGCCACAGCACTACCCCGCTGTGGGGGCCAGAGACAGTCG
CCTATCAACCTACAGAGGACGAAGGTGCGGTACAACCCCTCCTTGAAGGGGCTCAATATGACAGGCTATGAGACC
CAGGCAGGGGAGTTCCCCATGGTCAACAATGGCCACACAGTGCAGATCGGCCTGCCCTCCACCATGCGCATGACA
GTGGCTGACGGCATTGTATACATAGCCCAGCAGATGCACCTTCACTGGGGAGGTGCGTCCCTCGGAGATCAGCGGC
TCTGAGCACACCGTGGACGGGATCAGACATGTGATCGAGATTACATTGTTCACTACAATTCTAAATACAAGACG
TATGATATAGCCCAAGATGCGCCGGATGGTTTGGCTGTACTGGCAGCCTTCGTTGAGGTGAAGAATTACCCTGAA
AACACTTATTACAGCAACTTCATTTCTCATCTGGCCAACATCAAGTACCCAGGACAAAAGAACAACCCTGACTGGC
CTTGACGTTTCAGGACATGCTGCCCAGGAACCTCCAGCACTACTACACCTACCATGGCTCACTCACCACGCCTCCC
TGCACTGAGAACGTCCACTGGTTTGTGCTGGCAGATTTTGTCAAGCTCTCCAGGACACAGGTTTGAAGCTGGAG
AATTCCTTACTGGATCACCGCAACAAGACCATCCACAACGATTACCGCAGGACCCAGCCCTGAAACACAGAGTG
GTGGAATCCAACCTTCCCGAATCAGGAATACACTCTAGGCTCTGAATTCCAGTTTACCTACATAAGATTGAGGAA
ATTCTTGACTACTTAAGAAGAGCATTGAACTGAGGAAAGCTAAGAGGAAGATTCAATAATATTAAGTAGCTTGAA
GCCTGACCTAGCCAGAAGTGCCTGTCCGCTGCAGCCGCACCCTACCTTGTCTAAGAAACCATGTGTGTCTGGAAC
ACGCTGCTCCCCCTGGGCAGCTGTTGGGATTCTGATTAAAGAGGGGAAACGATCATCCTGGACAGGAAGTGAGATG
GCTTCAGTTCATGAGACGGGATCTGAGTTAGACATCACCAGTGGAATGATTGGAATAGAACTTAAAGGAAAT
GGAACCCTAAGTATTCTCCCATCAAATCATATATGTTGACCTGTCTGAATTATAAACCAGCCTGACCTTTCCTTT
AGCATTAGATGTAATAAAATAACTTTGGAAATTTGTCATTT

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FIGURE 663

MRALVLLLSLFLGGQAQHVSDWTYSEGALDEAHWPQHYPACGGQRQSPINLQRTKVRYNP SLKGLNMTGYETQA
GEFPMVNNGHTVQIGLPSTMRMTVADGIVYIAQQMHFWGGASSEISGSEHTVDGIRHVIEIHIVHYNSKYKTYD
IAQDAPDGLAVLA AFVEVKNYPENTYYSNFISHLANIKYPGQRTTLTGLDVQDMLPRNLQHYTTYHGSLTTPPCT
ENVHWFVLADFVKLSRTQVWKLENSLLDHRNKTIHNDYRRTQPLKHRVVESNFPNQEYTLGSEFQFYLHKIEEIL
DYLRRALN

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FIGURE 664

CGCCAGAGAGGCTCCCTCAGCCCTGCTCCGCGGGGTCCACAGCGGGCTCCACAGCGGGCTCCATAGCGGGCTCCA
CAGCGGTCCGGCGGGCGGCAGCGAGCCCGTGGGCAGTGGGGGTGGTCCCGTGGCTCCGGCCCCCGGTGCAGA**ATG**

GCGGCGGGCGGTTCCGATGAACATCCAGATGCTGCTGGAGGCGGCCGACTATCTGGAGCGGGCGGGAGAGAGAAGCT
GAACATGGTTATGCCTCCATGTTACCATAACAATAACAAGGACAGAGATGCCTTAAAACGGAGGAACAAATCCAAA
AAGAATAACAGCAGTAGCAGATCAACTCACAATGAAATGGAGAAGAATAGACGGGCTCATCTTCGCTTGTGCCTG
GAGAAGTTGAAGGGGCTGGTGCCACTGGGACCCGAATCAAGTCGACACACTACGTTGAGTTTATTAACAAAAGCC
AAATTGCACATAAAGAACTTGAAGATTGTGACAGAAAAGCCGTTACCCAAATCGACCAGCTTCAGCGAGAGCAG
CGACACCTGAAGAGGCAGCTGGAGAAGCTGGGCATTGAGAGGATCCGGATGGACAGCATCGGCTCCACCGTCTCC
TCGGAGCGCTCCGACTCCGACAGGGAAGAAATCGACGTTGACGTGGAGAGCACGGACTATCTCACAGGTGATCTG
GACTGGAGCAGCAGCAGTGTGAGCGACTCTGACGAGCGGGGCAGCATGCAGAGCCTCGGCAGTGATGAGGGCTAT
TCCAGCACCAGCATCAAGAGAATAAAGCTGCAGGACAGTCACAAGGCGTGTCTTGGTCTCT**TAAG**AGAGTGGGCAC
TGGGGCTGTCTCCTTGAAGGTTCTCCCTGTTGGTTCTGATTAGGTAACGTATTGGACCTGCCACAACCTCCCTTG
CACGTAAACTTCAGTGTCCACCTTGACCAAAATCAGCTTTGTAAGTGTTC**TAAG**GAGGTGCTTAGGATTGTGG
GTTTCTGATTGCATCACTAGCTTCTCC

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FIGURE 665

MAAAVRMNIQMLLEAADYLERREREAEHGYASMLPYNNKDRDALKRRNKSCKNNSSSRSTHNEMEKNNRAHLRLC
LEKLKGLVPLGPRESSRHTTLLTKAKLHIKKLEDCDRKAVHQIDQLQREQRHLKRQLEKLGIERIRMDSIGSTV
SSERSDSREEIDVDVESTDYLTGDLDWSSSSVSDSDERGSMQSLGSDEGYSSTSIKRIKLQDSHKACLGL

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FIGURE 666

CACTGAATAAACTCTAGGTTCCCATTTCTTTTCAGCCAGATCCTCCCAGGGAATCACTACAGGCTGGTTAGCCAAA
AAGTCCTGATTTTCTGCTCAATAGAGGTCCTTACTGGAAGGCAGCATGTCCAATGTTACCTTGAGAAAAATGTCT
CCCACAGGAAATGAGATGAAGAGCACCACTCAGGGAACACACGGAAGCAGCAGGATTTTTCACGAGGTGAACAAA
AGAAGAACTTTCTTACAGGATAACAGTTGGATAAAGAAACGCCCTGAAGAAGAAAAAGATGAAAATTACGGTAGG
GTGGTGCTCAACCGACATAATTCCCATGATGCATTGGACAGGAAAGTAAATGAGAGAGATGTGCCAAAAGCTACA
ATTAGTCGGTACAGTTCTGATGACACTTTGGACAGGATCTCAGACAGAAATGATGCTGCTAAAACATATAAGGCC
AATACCTTGGATAACCAACTAACCAATAGGAGCATGTCCATGTTTAGATCACTGGAAGTAACAAAGTTGCAACCT
GGCGGTTTCATTGAATGCCAACACCTCCAACACCATAGCATCCACTTCTGCTACTACTCCTGTAAAGAAGAAGAGG
CAGTCCTGGTTTCCACCGCCCCCTCCAGGTTACAATGCCTCTTCGAGCACAGGAACCAGGAGACGGGAACCAGGT
GTTACCCCTCCAATACCTCCAAGCCCAGTTCTCCTGTTTCTTCTCCTAACCAAGCTGAGACAGGATAATAGGCAG
ATACATCCACCTAAACCAGGTGTATATACAGAAACCAACAGATCTGCTGAAAGAAATATAAGTGAAGAATTGGAT
AATCTCATCAAAATGAACAAAAGCTTGAATAGGAATCAAGGTCTTGATAGTCTCTTCAGAGCAAATCCAAAGGTA
GAAGAAAGAGAGAAAAAGAGCCAAAAGCCTTGAAAGTCTCATCTATATGAGTACCCGGACAGATAAAGATGGCAAA
GGAATCCAAAGCCTTGGAAGTCCGATTAAAGTTAATCAAAGGACTGACAAAAATGAGAAAGGAAGACAAAAATCTC
GAATCTGTTGCTAAAGTGAATGCCAGGATGAATAAAACGAGCAGAAGAAGTGAAGACCTTGATAATGCTACTGAA
GTAAATCCCAAAGGACATGAAAAATACCACTGGAAAAAAGACCTTGATGGGCTTATTAAAGTGGATCCTGAAACA
AATAAAAAATATTACGAGGGGCCAGAGCCTTGATAATCTCATCAAAGTGACCCCTGAAGTAAAGAGAAGTAACCAA
GGTTCCAAAGACCTTAATAACTTCATCAAAGTGTATCCAGGAACAGAAAAAGTACTGAAGGGGGCCAAAGTCTC
GACAGCCTCATTAAAGTGACTCCTGAAAGAAACAGAACTAACCAAGGGAACCAAGACTTGAAAAATCTTATCAA
GTGATCCCTTCAGCAAACAAAAGCAGTGAACAAGGTCTTGATGAACATATTAATGTCAGCCCCAAAGCTGTCAA
AACACTGATGGAAAAACAAGATCTTGATAAACTCATCAAGGTGAATCCTGAAATTTTCACAAACAACCAAGAAAC
CAAGATCTTGCTAACCTCATCAAAGTAAATCCTGCAGTAATCAGAAACAATCAGAGCCAAGACTTGAAAAATCTT
ATCAAAGTGATCCCTTCAGCTCTTAGAAACACTAATCGAGACCAGAACCTGGAAAAATTTAATTGAAGTAAATCT
CATGTGTCTGAAAACAAGAATGGAAGCTCTAACACTGGAGCCAAGCAGGCAGGACCACAGGATACTGTTGTGTAC
ACAAGGACATATGTGGAGAATAGTAAATCACCCAAGGATGGATATCAGGAGAATATCTCTGAAAAATACATACAA
ACTGTTTATTCAACTTCTGATAGGTCTGTCATTGAAAGAGATATGTGCACTTACTGCCGAAAACCTTGGGTGTA
GAAACTAAAATGATTTTAGATGAATTACAAATTTGCTGCCATTCTACTTGCTTTAAGTGTGAAATATGCAAGCAG
CCTTTGAAAAATCTACAAGCGGGTGATAGTATTTGGATTTATAGACAGACAATACACTGTGAACCTTGCTACTCT
AAAATTATGGCAAAGTGGATTCCATAACTCTGGCACAAGGAAATCAAGATGAAAAGCACTCATTAAAGGAATTAAA
GTTACAAGTTTTATCTTAATAATATGTAATCTAGAAAAGCTTTCACATTGAAGATCAACTCTTGTAACAAATTAA
CAATTCTGTTATTGCATAAGTAATCTAATTGTCTTCAATAAGGTCACACACATAAAAAAGAGCCATCTGGTCTCTG
GCTAGAGTTAGCAATAAAAAAGTTCAAATGGTTCCAGAAAAA

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FIGURE 667

MSNVTLRKMSPTGNEMKSTTQGTTRKQQDFHEVNKRRTFLQDNSWIKKRPEEEKDENYGRVVLNRHNSHDALDRK
VNERDVPKATISRYSSDDTLDRISDRNDAAKTYKANTLDNQLTNRSMSMFRSLEVTKLQPGGSLNANTSNTIAST
SATTPVKKKRQSWFPPPPPGYNASSSTGTRRREP GVHPP IPPKPSSPVSSPNQLRQDNRQIHPPKPGVYTETNRS
AERNIRSQDLDNIVKVATSLQRSDKGEELDNLIKMNKSLNRNQGLDSLFRANPKVEEREKRAKSLES LIYMSTRT
DKDGKGIQSLGSP IKVNQRTDKNEKGRQNLESVAKVNARMNKTSRRSEDLNATEVNPKGHENTTGKKDLDGLIK
VDPETNKNITRGQSLDNLIKVTPEVKRSNQGSKDLNNFIKVPFGTEKSTEGGQSLDSLIVTPEERNRTNQGNQDL
ENLIKVIPSANKSSEQGLDEHINVSPKAVKNTDGKQDLCLKIKVNPEIFTNNQRNQDLANLIKVNPAVIRNNQSQ
DLENLIKVIPSALRNTNRDQNLLENLIEVNSHVSENKNGSSNTGAKQAGPQDTVVYTRTYVENS KSPKDG YQENIS
GKYIQTVYSTSDRSVIERDMCTYCRKPLGVETKMILDELQICCHSTCFKCEICKQPLENLQAGDSIWIYRQTIHC
EPCYSKIMAKWIP

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FIGURE 668

CATT CAGAGACAGAAGGTGGATAGACAAATCTCCACCTTCAGACTGGTAGGCTCCTCCAGAAGCCATCAGACAGG
AAGATGTGAAAATCCCCAGCACTCATCCCAGAATCACTAAGTGGCACCTGTCCTGGGCCAAAGTCCCAGGACAGA
CCTCATTGTTCTCTGTGGGAATACCTCCCCAGGAGGGCATCCTGGATTCCCCCTTGCAACCCAGGTCAGAAGT
TTCATCGTCAAGGTTGTTTCATCTTTTTTTTCTGTCTAACAGCTCTGACTACCACCCAACCTTGAGGCACAGTG
AAGACATCGGTGGCCACTCCAATAACAGCAGGTCACAGCTGCTCTTCTGGAGGTGTCCTACAGGTGAAAAGCCCA
GCGACCCAGTCAGGATTTAAGTTTACCTCAAAAATCGAAGATTTTAACATGGAGAGTGACAGCTTTGAAGATTTT
TGGAAGGTGAAGATCTTAGTAATTACAGTTACAGCTCTACCCTGCCCTTTTCTACTAGATGCCGCCCATGT
GAACCAGAATCCCTGGAAATCAACAAGTATTTTGTGGTCATTATCTATGCCCTGGTATTCTGCTGAGCCTGCTG
GGAACTCCCTCGTGATGCTGGTCATCTTATACAGCAGGGTCGGCCGCTCCGTCAGTGATGTCTACCTGCTGAAC
CTAGCCTTGGCCGACCTACTCTTTGCCCTGACCTTGCCCATCTGGGCCGCTCCAAGGTGAATGGCTGGATTTTT
GGCACATTCTGTGCAAGGTGGTCTCACTCCTGAAGGAAGTCAACTTCTATAGTGGCATCCTGCTACTGGCCTGC
ATCAGTGTGGACCGTTACCTGGCCATTGTCCATGCCACACGCACACTGACCCAGAAGCGCTACTTGGTCAAATTC
ATAATGCTCAGCATCTGGGGTCTGTCTTGTCTCTGGCCCTGCCTGTCTTACTTTTTCCGAAGGACCGTCTACTCA
TCCAATGTTAGCCAGCCTGCTATGAGGACATGGGCAACAATACAGCAAACCTGGCGGATGCTGTTACGGATCCTG
CCCCAGTCTTTGGCTTCATCGTGCCACTGCTGATCATGCTGTTCTGCTACGGATTACCCCTGCGTACGCTGTTT
AAGGCCACATGGGGCAGAAGCACCGGGCCATGCGGGTCATCTTTGCTGTGCTCCTCATCTTCTGCTCTGCTGG
CTGCCCTACAACCTGGTCTCTGCTGGCAGACACCTCATGAGGACCCAGGTGATCCAGGAGACCTGTGAGCGCCGC
AATCAGATCGACCGGGCTCTGGATGCCACCGAGATTCTGGGCATCCTTCACAGCTGCCTCAACCCCTCATCTAC
GCCTTCATTGGCCAGAAGTTTGGCCATGGACTCCTCAAGATTCTAGCTATACATGGCTTGATCAGCAAGGACTCC
CTGCCCAAAGACAGCAGGCCTTCCTTTGTTGGCTCTTCTTCAGGGCACACTTCCACTACTCTCTTAAGACCTCCTG
CCTAAGTGCAGCCCGTGGGGTTCCCTCCCTTCTCTTCACAGTCACATTCCAAGCCTCATGTCCACTGGTTCTTCTT
GGTCTCAGTGTCAATGCAGCCCCCATTTGTGGTCACAGGAAGTAGAGGAGGCCACGTTCTTACTAGTTTCCCTTGC
ATGTTTTAGAAAGCTTGCCCTGGTGCCTCACCCCTTGCCATAATTACTATGTCATTTGCTGGAGCTCTGCCCATC
CTGCCCTGAGCCCATGGCACTCTATGTTCTAAGAAGTGAAAATCTACACTCCAGTGAGACAGCTCTGCATACTC
ATTAGGATGGCTAGTATCAAAAGAAAGAAAATCAGGCTGGCCAACGGGGTGAAACCTGTCTCTACTAAAAATACA
AAAAAAAAAAAAAATTAGCCGGGCGTGGTGGTGAGTGCCTGTAATCACAGCTACTTGGGAGGCTGAGATGGGAGA
ATCACTTGAACCCGGGAGCAGAGGTTGCAGTGAGCCGAGATTGTGCCCTGCCATCCAGCCTGAGCGACAGTGAG
ACTCTGTCTCAGTCCATGAAGATGTAGAGGAGAACTGGAACCTCTCGAGCGTTGCTGGGGGGGATTGTAAATGG
TGTGACCACTGCAGAAGACAGTATGGCAGCTTTCCTCAAACTTCAGACATAGAATTAACACATGATCCTGCAAT
TCCACTTATAGGAATTGACCCACAAGAAATGAAAGCAGGGACTTGAACCCATATTTGTACACCAATATTCATAGC
AGCTTATTCACAAGACCCAAAAGGCAGAAGCAACCCAAATGTTTCATCAATGAATGAATGAATGGCTAAGCAAAAT
GTGATATGTACCTAACGAAGTATCCTTCAGCCTGAAAGAGGAATGAAGTACTCATAATGTTACAACACGGACGA
ACCTTGAAAACCTTTATGCTAAGTGAAATAAGCCAGACATCAACAGATAAATAGTTTATGATTCCACCTACATGAG
GTACTGAGAGTGAACAAATTTACAGAGACAGAAAGCAGAACAGTGATTACCAGGGACTGAGGGGAGGGGAGCATG
GGAAGTGACGGTTTAATGGGCACAGGGTTTATGTTTLAGGATGTTGAAAAGTTCTGCAGATAAACAGTAGTGATA
GTTGTACCGCAATGTGACTTAATGCCACTAAATTGACACTTAAAAATGGTTTAAATGGTCAATTTTGTATGTAT
ATTTTATATCAATTTAAAAAAAACCTGAGCCCCAAAAGGTATTTTAAATCACCAAGGCTGATTAAACCAAGGCTA
GAACCACCTGCCTATATTTTTTGTAAATGATTTTCATTCAATATCTTTTTTTTAAATAAACCATTTTTTACTTGGGT
GTTTAT

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FIGURE 669

MEDFNMESDSFEDFWKGEDLSNYSYSSTLPPFLD AAPCEPESLEINKYFVVIIYALVFLLSLLGNSLVMLVILY
SRVGRSVTDVYLLNLALADLLFALTLP IWAASKVNGWIFGTFLCKVVSLLKEVNFYSGILLACISVDRYLAIVH
ATRTLTQKRYLVKFICLSIWGLSLLLALPVLLFRRTVYSSNVSPACYEDMGNNTANWRMLLRILPQSFGFIVPLL
IMLCYGFTRLRTLFKAHMGQKHRAMRVIFAVVLIFLLCWLPPYNLVLLADTLMRTQVIQETCERNHIDRALDATE
ILGILHSCLNPLIYAFIQKFRHGLLKILAIHGLISKDSL PKDSRPSFVGSSSGHTSTTL

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FIGURE 670

GGAACTTCTGCCTCAGGTGGGGAGAGGAGTCCATAGATCAGGGAACTTATGTCTTGGTGAAATGGAAGACCAT
GTTTCTAAACACCTGTCGCCAGGTTACTTGAATTTCCACTAGAGGAGCAGAAATGCCACCAATGCCAAGTGCCCC
ACCTGTGCATCCACCTCCAGATGGAGGATGGGGTTGGATTGTGGTTGGAGCAGCTTTTATCTCCATTGGATTTTC
CTATGCATTCCCCAAAGCTGTCACCGTATTCTTCAAAGAAATTCAGCAAATATTCACACTACCTACAGTGAAAT
AGCATGGATTTTCATCCATTATGCTGGCTGTTATGTACGCAGGAGGTCTGTAAAGTAGTGTTTTGGTGAATAAATA
CGGCAGCCGGCCGGTGGTGATAGCAGGAGGCTTATTATGCTGTCTTGGAAATGGTGTGGCCCTCCTTTAGTAGCAG
CGTGGTACAGCTGTACCTCACTATGGGATTCTATTACAGGTTTAGGTTTAGCCTTCAACCTGCAACCCGCCTTAAC
CATAATTGGCAAATACTTCTATAGGAAGCGACCCATGGCAAATGGATTGGCCATGGCAGGAAGTCTGTTTTCTT
AAGTTCATTGGCTCCTTTCAATCAGTACCTTTTTAATACTTTTGGCTGGAAAGGAAGCTTCTGATTTTGGGAAG
TCTACTTTTGAATGCCTGTGTGGCTGGTTCCCTCATGAGACCCCTTGGACCCAATCAAACCACTTCTAAGTCTAA
AAATAAGACTGGCAAACAGAAGATGATTCAAGCCCCAAAGAAAATCAAACGAAGAAATCAACTTGGGAAAAAGT
TAATAAGTATTTAGATTTCTCCCTTTTTAAGCATAGAGGATTTCTGATATATCTGTCTGGAAATGTCATTATGTT
CCTAGGTTTTTTTTGCCCCCAATTATATTCTTGGCTCCATATGCTAAAGACCAAGGAATTGATGAGTACTCGGCAGC
TTTTCTGCTATCTGTTATGGCTTTCGTTGATATGTTTGCTAGGCCTTCTGTAGGATTAATTGCAAACCTCAAATA
TATTTCGACCTCGAATTCAGTACTTCTTCAGTTTTGCAATCATGTTCAATGGAGTGTGTCACCTCTTGTGCCCACT
GGCACAGGACTACACAAGCCTGGTATTATATGCTGTATTTTTTGGCCCTTGGATTTGGGAGTGTAGCAGTGTTCT
CTTTGAAACTCTCATGGACCTCGTGGGTGCACCAAGATTTTCCAGTGCCGTCGGACTTGTCACAATTGTGGAGTG
TGGCCCACTTCTTCTTGGCCCTCCTCTTGCAGGTAAATTGGTGGATTTAACTGGAGAATATAAATACATGTACAT
GTCCGTGTTGGGCTATTGTGGTAGCAGCAAGCGTGTGGCTGCTCATTGGCAATGCTATCAACTATAGATTGCTTGC
AAAGGAAAGGAAGGAGGAAAATGCAAGGCAGAAGTCCAGAGAATCTGAACCTTGAGCAAATCTAAACATTTCGGA
AGATGTTAACGTCAAAGTTTCAAATGCACAGAGTGTAACCTCAGAAAGAGAACTAACATTTAACAAGAATCACA
TCTCTGATTTCAAGTGTTTATGACTTTATCTAGGAGTTTGTTTTTTCATTTTGTTTTTTAAAGTATTAGAAAAGGT
TTAGCTGAAATGAGGAGTCACAATTTDAAGGATGGAGGTGATATTTTCTCAATGGCAAATTTTAAATTAGTTTT
TAAAACTTACTTATTTGGGTAGTTAAATTTTGAGATTATGCATAGAAAGAATCCATGCTATAGGTTTATTTCCA
TACCTGACTCTGGGTGTGGTGGTTAAATACTAATTTTAAAGTCTTCCAGTGACTTTCGGTCTTGGTTATATGGA
GAATTCTGAATCCCAAACCCCTGGTTTAAAGTAGGTAGAAGGAGGATGCCTAATCCTACAAAGTGACCCTTTATAC
ATTTCAATTTTTTATTTGATATTAAAGTATGAGATAGAGTTGAGAGACAATTAATTATCCCCCTCTTACACACAAAC
ACACATACTCCACATACTTACCCACATGTACACAGAGTATCTGGAGAATAAAACCCAAATTCAAAAA
AAAA

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FIGURE 671

MPPMP\$APPVHPPPDGGGWIVVGAAFISIGFSYAFFKAVTVFFKEIQQIFHTTYSEIAWISSIMLAVMYAGGPV
SSVLVNKYGSRPVVIAGGLLCCLGMVLASFSSSVVQLYLTMGFITGLGLAFNLQPALTIIGKYFYRKRPMANGLA
MAGSPVFLSSLAPFNQYLFNTFGWKGSFLILGSLLLNACVAGSLMRPLGPNQTTSKSKNKTGKTEDDSSPKKIKT
KKSTWEKVNKYLDFFSLFKHRGFLIYLSGNVIMFLGFFAPIIFLAPYAKDQGIDEYSAAFLLSVMAFVDMFARPSV
GLIANSKYIRPRIQYFFSFAIMFNGVCHLLCPLAQDYTSLVLYAVFFGLGFGSVSSVLFETLMDLVGAPRESSAV
GLVTIVECGPVLLGPPLAGKLVDLTGEYKMYMSCGAIVVAASVWLLIGNAINYRLLAKERKEENARQKSRESE
LSKSKHSEDVNVKVSNAQSVTSERETNI

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FIGURE 672

GGGCTCGAACGCGCAGCGCACGGGAACCGGTCCCGCTGCTTGGGTCAGGTTCCGCCGGTCGCGGGAGCCCCGCCGT
GCAGTCGGAGGAACACGTGGCCATCAGTAATCATGAGCAACCCATTTCGCACACCTTGCTGAGCCATTGGATCCTG
TACAACCAGGAAAGAAATTCTTCAATTTGAATAAATTGGAGGATTCAAGATATGGGCGCTTACCATTTTCGATCA
GAGTTCTTCTGGAAGCAGCCATTTCGGAATTGTGATGAGTTTTTGGTGAAGAAACAGGATATTGAAAATATTCTAC
ATTGGAATGTCACTCAGCACAAGAACATAGAAGTGCCATTTAAGCCTGCTCGTGTATCCTGCAGGACTTTACGG
GTGTGCCCGCTGTGGTTGACTTTGCTGCAATGCGTGATGCTGTGAAAAAGTTAGGAGGAGATCCAGAGAAAATAA
ACCCTGTCTGCCCTGCTGATCTTGTAATAGATCATTCCATCCAGGTTGATTTCACAGAAGGGCAGACAGTTTAC
AGAAGAATCAAGACCTGGAATTTGAAAGAAATAGAGAGCGATTGAAATTTTTAAAGTGGGGTTCCAGGCTTTTC
ACAACATGCGGATTATTCCCCCTGGCTCAGGAATCATCCACCAGGTGAATTTGGAATATTTGGCAAGAGTGGTAT
TTGATCAGGATGGATATTATTACCCAGACAGCCTCGTGGGCACAGACTCGCACACTACCATGATTGATGGCTTGG
GCATTCTTGGTTGGGGTGTGGTGGTATTGAAGCAGAAGCTGTATGCTGGGTGAGCCAATCAGTATGGTGCTTC
CTCAGGTGATTGGCTACAGGCTGATGGGGAAGCCCCACCCTCTGGTAACATCCACTGACATCGTGCTCACCATT
CCAAGCACCTCCGCCAGGTTGGGGTAGTGGGCAAAATTTGTCGAGTTCTTCGGGCCTGGAGTAGCCAGTTGTCCA
TTGCTGACCGAGCTACGATTGCTAACATGTGTCCAGAGTACGGAGCAACTGCTGCCTTTTTCCAGTTGATGAAG
TTAGTATCACGTACCTGGTGCAAACAGGTCGTGATGAAGAAAAATTAAAGTATATTAAAAATATCTTCAGGCTG
TAGGAATGTTTCGAGATTTCAATGACCCTTCTCAAGACCCAGACTTCACCCAGGTTGTGGAATTAGATTTGAAAA
CAGTAGTGCCTTGCTGTAGTGGACCCAAAAGGCCTCAGGACAAAGTTGCTGTGTCCGACATGAAAAAGGACTTTG
AGAGCTGCCTTGGAGCCAAGCAAGGATTTAAAGGATTCCAAGTTGCTCCTGAACATCATAATGACCATAAGACCT
TTATCTATGATAACACTGAATTCACCCTTGCTCATGGTTCTGTGGTCATTGCTGCCATTACTAGCTGCACAAACA
CCAGTAATCCGTCTGTGATGTTAGGGGCAGGATTGTTAGCAAAGAAAGCTGTGGATGCTGGCCTGAACGTGATGC
CTTACATCAAAACTAGCCTGTCTCCTGGGAGTGGCGTGGTCACCTACTACCTACAAGAAAGCGGAGTCATGCCTT
ATCTGTCTCAGCTTGGGTTTGACGTGGTGGGCTATGGCTGCATGACCTGCATTGGCAACAGTGGGCCTTTACCTG
AACCTGTGGTAGAAGCCATCACACAGGGAGACCTTGATGCTGTTGGAGTACTATCTGGAACAGGAATTTGAAAG
GTCGAGTTACCCCCAACACCCGGGCCAACTATTTAGCCTCTCCCCCTTAGTAATAGCATATGCAATTGCTGGAA
CCATCAGAATCGACTTTGAGAAAGAGCCATTGGGAGTAAATGCAAAGGGACAGCAGGTATTTCTGAAAGATATCT
GGCCGACTAGAGACGAGATCCAGGCAGTGGAGCGTCAGTATGTATCCCGGGGATGTTTAAAGGAAGTCTATCAGA
AAATAGAGACTGTGAATGAAAGCTGGAATGCCTTAGCAACCCCATCAGATAAGCTGTTTTTCTGGAATTCAAAT
CTACGTATATCAAATCACCACCATCTTTGAAAACCTGACTTTGGATCTTCAGCCCCCTAAATCTATAGTGGATG
CCTATGTGCTGCTAAATTTGGGAGATTCGGTAACAACCTGACCACATCTCCCAGCTGGAAATATTGCAAGAAACA
GTCCTGTCTGCTCGCTACTTAACCTAACAGAGGCCCTAACCTCCACGAGAATTCAACTCCTATGGCTCCCGCCGAGGTA
ATGACGCCGTATGGCACGGGGAACATTTGCCAACATTTCGCTTGTTAAACAGATTTTTGAAACAAGCAGGCACCAC
AGACTATCCATCTGCCTTCTGGGGAAATCCTTGATGTGTTGATGCTGCTGAGCGGTACCAGCAGGCAGGCCTTC
CCCTGATCGTTCTGGCTGGCAAAGAGTACGGTGCAGGCAGCTCCCGAGACTGGGCAGCTAAGGGCCCTTTCTGCTG
TGGGAATCAAAGCCGTCTGGCCGAGAGCTACGAGCGCATTACCCGAGTAACCTGGTTGGGATGGGTGTGATCC
CACTTGAATATCTCCCTGGTGAGAAATGCAGATGCCCTGGGGCTCACAGGGCAAGAACGATACACTATCATTATTC
CAGAAAACCTCAAACCACAAATGAAAGTCCAGGTCAAGCTGGATACTGGCAAGACCTTCCAGGCTGTGATGAGGT
TTGACACTGATGTGGAGCTCACTTATTTCTCAACGGGGGCATCCTCAACTACATGATCCGCAAGATGGCCAAGT
AGGGAGACGTGCACTTGGTTCGTGCGCCCAGGGAGGAAGCCGCACCACCAGCCAGCGCAGGCCCTGGTGGAGAGGCC
TCCCTGGCTGCCTCTGGGAGGGGTGCTGCCTTGATAGTGGAGCAAGTGAGCACTGAGGGTCTGGTGCCAATCCTG
TAGGCACAAAACCAGAAAGTTTCTACATTCTCTATTTTTGTTAATCATCTTCTTTTTCCAGAATTTGGAAGCTA
GAATGGTGGGAATGTCAGTAGTGCCAGAAAGAGAGAACCAAGCTTGCTTTAAAGTTACTGATCACAGGACGTTG
CTTTTTCACTGTTTCTTATTAATCTTCAGCTGAACACAAGCAAACCTTCTCAGGAGGTGTCTCCTACCTCTTAT
TGTTCTCTTACGCTCTGCTCAATGAAACCTTCTCTTGAGGGTCATTTTTCTTTCTGTATTAATTATACCAGTG
TTAAGTGACATAGATAAGAACTTTGCACACTTCAAATCAGAGCAGTGATTCTCTCTCTCTCCCTTTTCTTCA
GAGTGAATCATCCAGACTCCTCATGGATAGGTCGGGTGTTAAAGTTGTTTTGATTATGTACCTTTTGATAGATCC
ACATAAAAAGAAATGTGAAGTTTTCTTTTACTATCTTTTCATTTATCAAGCAGAGACCTTTGTTGGGAGGCGGTT
TGGGAGAACACATTTCTAATTTGAATGAAATGAAATCTATTTTCAGTG

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FIGURE 673

MSNPFAHLAEPLDPVQPGKKFFNLNKLEDSRYGRLPFSIRVLLAAIRNCDEFLVKKQDIENILHWNVTQHKNIE
VPFKPARVILQDFTGVPVAVDFAAMRDAVKKLGGDPEKINPVCADLVIDHSIQVDFNRRADSLQKNQDLEFERN
RERFEFLKWGSQAFHNMRIIPPGSGIIHQVNLEYLARVVFDDQGYYPDSLVTGDSHTTMIDGLGILGWGVGGIE
AEAVMLGQPIISMVLPQVIGYRLMGKPHPLVTSTDIVLTITKHLRQVGVGKFEFFGPGVAQLSIADRATIANMC
PEYGATAAFFPVDEVSTYLVQTGRDEEKLKYIKKYLQAVGMFRDFNDPSQDPDFTQVVELDLKTVVPCCSGPKR
PQDKVAVSDMKKDFESCLGAKQGFKGFQVAPEHHNDHKTFIYDNTEFTLAHGSVIAAITSCTNTSNPSVMLGAG
LLAKKAVDAGLNVMPYIKTSLSPGSGVVTTYLQESGVMPYLSQLGFDVVGYGCMTCIGNSGPLPEPVVEAITQGD
LVAVGVLSGNNRFEGRVHPNTRANYLASPPLVIAAIAAGTIRIDFEKEPLGVNAKGQVFLKDIWPTRDEIQAVE
RQYVIPGMFKEVYQKIETVNESWNAALATPSDKLFFWNSKSTYIKSPFFENLTLDLQPPKSIVDAYVLLNLGDSV
TTDHISPAGNIARNSPAARYLTNRGLTPREFNSYGSRRGNDAMARGTFANIRLLNRFLNKQAPQTIHLPSGEIL
DVFDAAERYQQAGLPLIVLAGKEYGAGSSRDWAAKGPFLLGIKAVLAESYERIHRNLVGMGVIPLEYLPGENAD
ALGLTGQERYTIIIPENLKPQMKVQVKLDTGKTFQAVMRFTDVELTYFLNGGILNYMIRKMAK

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FIGURE 674A

CATGGCGGCGACTGCGGCAAAGCGAGAGCCTCGGAGACGCCGCTGCCGCCAGCACAGCCGGAGATCTGAGCCGAC
 ACTGGGGGCGAGTCCGCGAGCCCCGCACTCTCTCGATGAGTCGGAGAAGTCCCGTTGTATCAGAGTAAGATGGACG
 GTAGCTTTGATTGTGATTGTGGTGAGCTGGAGCCACCTGATCACTAACAAAAGACATCTTCTGTTAAACCAACAGC
 CGCCAGGCTTCCTGTTGAAATAAATATATAGCAACAAAGGAAAAAAGAAGCAAAACGGAAATAGTGCTTACCAG
 CACCTTAGAATGATGCTGCTCAGGACCAGTCCAACACTGAATGTATCTGCACTGTGAGGAGAATGTTTCATAGAAG
 CCTGTTGTGTGCATATTTATTCACCTTTTGTAAATGTTAAATCGTTTAGCACGGTAATCTGAGTGCACAGTATG
 TCATTTTCATTCCGTTTGAGTTTCTGTTTTCGTTAAATGTCTGCAGAGTTGCTGCCCTTTCTTGAACATGAGT
 ACTGCAATCTTTTTTAATTCTCAATATGAATAGAGCTTTTTGAGCTTTAAATCTAAGGGGAAGTTCGACAGGCCTGT
 TTGGCATATGCAATGAACATCAAGAAACCATCTTGCTGTGGAAGCATAATTATTTTTCTTCTCCCTTTTTGAAAG
 ATCTTTCTTTTTGATGCCAGTTTTCTTCTTGTTTACACAAGTTCAATTTGAAAGGAAAAGGCAATAGTAAGGGT
 TTCAAAATGGCAGAGAAATTTGAAAGTCTCATGAACATTTCATGGTTTTGATCTGGGTTCTAGGTATATGGACTTA
 AAACCATTTGGGTTGTGGAGGCAATGGCTTGGTTTTTTCTGCTGTAGACAATGACTGTGACAAAAGAGTAGCCATC
 AAGAAAATTGTCCTTACTGATCCCCAGAGTGTCAAACATGCTCTACGTGAAATCAAATTATTAGAAGACTTGAC
 CATGATAACATTGTGAAAGTGTGAGATTCTTGGTCCAGTGGAAGCCAATTAACAGACGATGTGGGCTCTCTT
 ACGGAAGTGAACAGTGTGTTACATTGTTTACAGGAGTACATGGAGACAGACTTGGCTAATGTGCTGGAGCAGGGCCCT
 TTAAGTGAAGAGCATGCCAGGCTTTTCATGTATCAGCTGCTACGGGGGCTCAAGTATATTCACCTCTGCAAAATGTA
 CTGCACAGAGATCTCAAACAGCTAATCTTTTCATTAATACGGAAGACTTGGTGTGAAGATAGGTGACTTTGGT
 CTTGCACGGATCATGGATCCTCATTATTTCCATAAGGGTTCATCTTCTGAAGGATTGGTTACTAAATGGTACAGA
 TCTCCACGCTTTTTACTTTCTCCTAATAATTATACTAAAGCCATTGACATGTGGGCTGCAGGCTGCATCTTTGCT
 GAAATGCTGACTGGTAAAACCCCTTTTGCAGGTGCACATGAACCTGAACAGATGCAGCTGATTTTAGAATCTATT
 CCTGTTGTACATGAGGAAGATCGTCAGGAGCTTCTCAGCGTAATTCAGTTTACATTAGAAATGACATGACTGAG
 CCACACAAACCTTTAACTCAGCTGCTTCCAGGAATTAGTCGAGAAGCACTGGATTTCTGGAACAAATTTTGACA
 TTTAGCCCCATGGATCGGTTAACAGCAGAAGAAGCACTCTCCCATCCTTACATGAGCATATATTCTTTTCCAATG
 GATGAGCCAATTTCAAGCCATCCTTTTCATATTGAAGATGAAGTTGATGATATTTTGCTTATGGATGAAACTCAC
 AGTCACATTTATAACTGGGAAAGGTATCATGATTGTGAGTTTTCAGAGCATGATTGGCCTGTACATAACAACTTT
 GATATTGATGAAGTTGAGCTTGATCCAAGAGCTCTGTCCGATGTCACCTGATGAAGAAGAAGTACAAGTTGATCCC
 CGAAAATATTTGGATGGAGATCGGGAAAAGTATCTGGAGGATCCTGCTTTTGATACCAATTACTCTACTGAGCCT
 TGTGTTGCAATACTCAGATCATCATGAAAACAAATATTGTGATCTGGAGTGTAGCCATACTTGTAACTACAAAACG
 AGGTATCATCATATTTAGATAACTTAGTTTGGAGAGAGAGTGAAGTTAACCATTACTATGAACCCAAGCTTATT
 ATAGATCTTTCCAATTGGAAAGAACAAAGCAAAAGAAAATCTGATAAGAAAGGCAAATCAAATGTGAAAGGAAT
 GGATTGGTTAAAGCCCAGATAGCGCTAGAGGAAGCATCACAGCAACTGGCTGGAAAAGAAAGGGAAAAGAAATCAG
 GGATTTGATTTTGATTCTTTTATTGTCAGGAAGTATTTCAGCTTAGTTCCAGCATGAGCCTACTGATGTTGTTGAT
 AAATTAATGACTTGAATAGCTCAGTGTCCCACTAGAATTGAAAAGTTTGATATCAAAGTCAGTAAGCCAAGAA
 AAACAGGAAAAGGAATGGCAATCTGGCTCAATTAGAAGCCTTGTACCAAGTCTTCTTGGGACAGCCAGTTTGTG
 AGTGGTGGGGAGGACTGTTTTTTCATAAATCAGTTTTGTGAGGTAAGGAAGGATGAACAAGTTGAGAAGGAAAAC
 ACTTACACTAGTTACTTGGACAAGTTCTTTAGCAGGAAAGAAGATACTGAAATGCTAGAAACTGAGCCAGTAGAG
 GATGGGAAGCTTGGGGAGAGAGGACATGAGGAAGGATTTCTGAACAACAGTGGGGAGTTTCTCTTTAACAAGCAG
 CTCGAGTCCATAGGCATCCACAGTTTTACAGTCCAGTTGGGTCAACCTTAAGTCAATACAGGCCACATTAACA
 CCTTCTGCTATGAAATCTTCCCTCAAATTCCTCATCAAACATACAGCAGCATTCTGAAACATCTGAACATAAAC
 ACTCAGCAGACATTTATCTTTGTATTCTTCATGAAATGTGTTTTGTCTTTTTTTTATTACTAGTGTAAAGTCATT
 TTTTACTTGAATCAGATGGTGTGCTATTAGTAAGGATTTTATGAGTCTTGTGTTTTTAAATCCAGACTTTCTTTT
 TCTACATGTGAGATAGTTTTTCAATTTAACTGGCATGTCATTTGCACACAAAATAAAGACTAGAGCAAAAATAATG
 CAACGCAGGAGGAGAAAAGAAATGCACTAAGACAAGAACATTCTCTCATAGAACATTGATCTGTTTTACAGGAAA
 CAAACCTTGCTTGAATTTACACAGTGAGACTGTACATAATTGCATGAAAATAGCTATTTTTTTTCTAAGACAT
 TTTTCATTGATGAATATTTTCAAGTTTTTCATACTGTACACATTTCTTAAACACATGATACCAGCAGCAACTGA
 AAATGAATGCCGAATTTGGTACACATGTGTTATCTACCTCAAGGTAACAAGAGTATGTGGCAAAACATATACCAC
 CCATAGTGCTTTCACAAAATGCACTTCTATTTAGCCAGCGTTTTATTGTAGTAACTATTCTTAATAAAACTCACTC
 ACTGTTTATAAATGTTCTGGTATGCATTCTTTATAGTGAAGTGTTAATACATCACATCTTATTTATTTTAGCAAA

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FIGURE 674B

TCAGTATATTTCTGTATTTAATTATAAAAAATTA~~A~~CTTAGTTTTTAAAATTTATTTGCAAATATACTTTTTCCA
TTTGGCACATATGGTTTGTTCCTACCTAGCTGCATCTATAATGTCAGCTTATCCTAAGGCTGTCCACGTACTTAA
TTTACTTAAGTGTTTCATTTTAAGTAACGTGCTCACTGTGTATAGGAATTTGTATTTTGGAGGTGCTTGATCTATC
TACAAAGAAAAATTAATTAGGAATTACTTTATTATAAAATGCTCCTAGAAGTCTTAATTGTGTTTATTTTTTAAA
AAAACAAATGTTAGACTTGTGTGCATGGAAGTAATTAAGGTACATCATTATTGTAGTTTGAAAGTTGTACATGAT
AAGACATTTTGTTTTTTACTGTATGTTTTTACTGAATGATCTATTCCCCATCCCAAGGCAAGCATGAATAAAATTA
GGTTAAACGTAGCATGTGGCATCGCAGTCTCTTAGAATTTGTTTCATCTATTTTATTTTATTGAATACTGTCTGT
ATCTTTGGTTATCCTGTTTGAAGAAAAAGGACAAATAAAACATGGCCAGCAAATACAAAAAAAAAAAAA

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FIGURE 675

MAEKFESLMNIHGFDLGSRYMDLKPLGCGGNGLVFSAVDNDCKRVAIKKIVLTDPQSVKHALREIKIIRRLDHD
NIVKVFEILGPSGSQLTDDVGSLTELNsvyivQEYMETDLANVLEQGPlLEEHarLFMYQLLRGLKYIHSANVLH
RDLKPANLFINTEDLVLKIGDFGLARIMDPHYSHKGHLSEGLVTKWYRSPRLLLSPNNYTKAIDMWAAGCIFAEM
LTGKTLFAGAHELEQMQLILESIPVVHEEDRQELLSVIPVYIRNDMTEPHKPLTQLLPGISREALDFLEQILTFS
PMDRLTAAEALSHPYMSIYSFPMDEPISSHPFHIEDEVDDILLMDETHSHIYNWERYHDCQFSEHDWPVHNNFDI
DEVQLDPRALSDVTDEEEVQVDPRKYLDGDREKYLEDPAFDTNYSTEPWCWQYSDHHENKYCDLECSHTCNYKTRS
SSYLDNLVWRESEVNHYEYEPKLIIDLSNWKEQSKEKSDKKGKSKCERNGLVKAQIALEEASQQLAGKEREKNQGF
DFDSFIAGTIQLSSQHEPTDVVDKLNLDLNSSVSQLELKSLSKSVSQEKQEKGMANLAQLEALYQSSWDSQFVSG
GEDCFFINQFCEVRKDEQVEKENTYTSYLDKFFSRKEDTEMLETEPVEDGKLGERGHEEGFLNNSGEFLFNKQLE
SIGIPQFHSPVGSPLKSIQATLTPSAMKSSPQIPHQTYSSILKHLN

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FIGURE 676

CTGTGAAGATGGCGCTCTCCAGGGTGTGCTGGGCTCGGTCGGCTGTGTGGGGCTCGGCAGTCACCCCTGGACATT
TTGTCACCCGGAGGCTGCAACTTGGTCGCTCTGGCCTGGCTTGGGGGGCCCTCGGTCTTCAAAGCTTCACCTTT
CTCCAAAGGCAGATGTGAAGAACTTGATGTCTTATGTGGTAACCAAGACAAAAGCGATTAATGGGAAATACCATC
GTTTCTTGGGTCGTCAATTTCCCCGCTTCTATATCCTGTACACAATCTTCATGAAAGGATTGCAGATGTTATGGG
CTGATGCCAAAAGGCTAGAAGAATAAAGACAAATATGTGGAAGCACAATATAAAGTTTCATCAACTTCCATACC
GGGAGATGGAGCATTTGAGACAGTTCCGCCAAGACGTCACCAAGTGTCTTTTCTAGGTATTATTTCCATTCCAC
CTTTTGCCAACTACCTGGTCTTCTTGCTAATGTACCTGTTTCCCAGGCAACTACTGATCAGGCATTTCTGGACCC
CAAAACAACAACTGATTTCTTAGATATCTATCATGCTTTCCGGAAGCAGTCCCACCCAGAAATTATTAGTTATT
TAGAAAAGGTTCATCCCTCTCATTTCTGATGCAGGACTCCGGTGGCGTCTGACAGATCTGTGCACCAAGATACAGC
GTGGTACCCACCCAGCAATACATGATATCTTGGCTCTGAGAGAGTGTCTTCTAACCATCCTCTGGGCATGAACC
AACTCCAGGCTTTGCACGTGAAAACCTTGAGCCGGGCCATGCTTCTCACATCTTACCTGCCTCCTCCCTTGTTGA
GACATCGTTTGAAGACTCATACAACCTGTGATTACCAACTGGACAAGGCTTTGGCAAAGCTGGGGATTGGCCAGC
TGACTGCTCAGGAAGTAAAATCGGCTTGTTATCTCCGTGGCCTGAATTCTACGCATATTGGTGAAGATAGGTGTC
GAACCTGGCTGGGAGAATGGCTGCAGATTTCCCTGCAGCCTGAAAGAAGCTGAGCTGTCTCTCTTGTCTGCACAACG
TGGTCTGCTCTCCACCAACTACCTTGGGACAAGGCGCTGAATGAACCATGGAGCGGATGGCATTGTCTCTGCAGT
CGTATAGTATAGCAGTGCAGGAACAAACAGCACTTGCCAGCAAAGTCTGTGTGTACTGTTAAGTGTGTGGGAGGC
AGAGAGAGGAGCAGGGGCCATGGGCTTCACAGCATGGCACACCTGTGGGAAGTGCAGACATTCTCTCACAGCTA
GAACTGAAACAAACCTCTTGCTAGGGGTGGTCCGTGTGAGGTGTCATCCTGTCCCCCTCATAATTACTAATAGC
TGGAAGTGGCAGCAGCCTCTACTGGGCTTTTACTGTGATGTGTTTCAAGTTCATGTCTTAGGAAGTCAGCTTTTGCC
CCAGGTGGGAATCCTTATTTGGCTTAGGACTGATCCACTTCCATGTTACTTACATCTGTGGGTTTTTGTGTGTG
TGTTAGAAAATTTTTGGCTGGTGAAAACAGCACTCCTTTGGCTGGAGCACTTGTGTCCATGCATGTACTTGGGTG
TTTCCCTCCATCCTTTCTGATATGACCAAAAATCAAGTTGTTTTGTTTTTGTACCTTCACTGGCATGGGCTAA
CCACTTCTTTTTCAAACCTCTGAACACCTTTTTCTGATGGGTAACTTGCAGGAATATTCTATTGGAAAAGATAA
CAGGAAGTACAAGTGCTTCTTGACCCCTTCCCTCAATGTTTCTAGCCTTCACTCTCCATTGTCTTTTCTGGGCTGT
ATTACAGCCCTCTGTGGATCTTCAACTCTGCTGCCTCCACTGTGATGCAGCAGTCCAAGTGAAGTGCAGTGGC
TGCCTTCTCTGGGCCATGGATCACACCTGTAAGGTACTAATTACTGCCCAGCCTGGGGAGATCAGGAGAGGTCTG
CATAGTTAGTAAGTTGGGTTTAGCTTTTGTGTGTGCATCAGTGACTTAGAGTTCTGTAATAACTTATTGTAAATG
CATGAAGCACTGTTTTTAAACCCAAGTAAAGACTGCTTGAAACCTGTTGATGGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 677

MALSRVCWARSÄVWGSAVTPGHFVTRRLQLGRSGLAWGAPRSSKLHLSPKADVKNLMSYVVTKTKAINGKYHREĹ
GRHFPRFYILYTIFMKGLQMLWADAKKARRIKTNMWKHNKIFHQLPYREMEHLRQFRQDVTCKCLFLGIISIPPFA
NYLVFLLMYLFPRQLLIRHFWTPKQQTDFLDIYHAFRKQSHPEIISYLEKVIPLISDAGLRWRLTDLCTKIQRGT
HPAIHDILALRECF SNHPLGMNQLQALHVKALS RAMLLTSYLPPLLRHRLKTHTTVIHQĹDKALAKLGIGQLTA
QEVKSACYLRGLNSTHIGEDRCRTWLGEWLQISCSLKEAELSLLLHNVVLLSTNYĹGTRR

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FIGURE 678

AGACTCAGCTCCTGGTGAAGCTCCCAGCCATCAGCCATGAGGGTCTTGTATCTCCTCTTCTCGTTCCCTCTTCATA
TTCCTGATGCCTCTTCCAGGTGTTTTGGTGGTATAGGCGATCCTGTTACCTGCCTTAAGAGTGGAGCCATATGT
CATCCAGTCTTTTGCCCTAGAAGGTATAAACAAATTGGCACCTGTGGTCTCCCTGGAACAAAATGCTGCAAAAAG
CCATTGAGGAGGCCAAGAAGCTGCTGTGGCTGATGCGGATTTCAGAAAGGGCTCCCTCATCAGAGACGTGCGACATG
TAAACCAAATTAACTATGGTGTCCAAAGATACGCA

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FIGURE 679

MRVLYLLFSFLFIFLMPLPGVFGGIGDPVTCLKSGAICHVPFCPRRYKQIGTCGLPGTKCCKKP

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FIGURE 680A

ATTCTCTTGCTCCCCGCCCGTCGGGATCAGTCAGTGTGATCCGAAGCGGGGAGGGGGGGGGCGGCGGCCGAAC
GATGTGCGAGAACTGCGCAGACCTGGTGGAGGTGTTAAATGAAATATCAGATGTAGAAGGTGGTGTGACTGCA
GCTCAGAAAGGAACATACTCTCAAAATATTTACTTACATCAATTCCTGGACACAGAGGCAATGTCTATGCTGCTT
CAAGGAATATAAGCATTGAGATTTTAAATCAAGTAGTGTGTGCACTTATTAACCTTAGTGATTGCCCAAGTTCA
AGTGCTCCGGGACCAGCTTTGTAAACATTGTACTACCATTAAACATAGATTCCACGTGGCAAGATGAGAGTAATCA
AGCAGAAGAACCCTGAATATAGATAGAGAGTGTAAATGAAGGAAGTACAGAAAGACAAAAATCAATAGAAAAAA
ATCAAACTCTACAAGAATTTGTAACTGTACTGAGGAGGAATCTTCAAAGAGTTCTGATCCTTTTAGTTTATGGAG
TACAGATGAGAAGGAAAACTCTTACTATGTGTGGCAAAAAATTTTTCAAATTCAGTTTCCCTTATATACTGCTT
ACAAGCATAAATACTCACCTACTATTGAGGATATATCAACTCAAGAAAGTAACATATTAGGGGCATTCTGTGATA
TGAATGATGTAGAAGTACCATTGCATTGCTTCGTTATGTATGTTTGTGTTTGTGGGAAAAATGGCCTTTCTCTCA
TGAAGGATTGCTTTGAATATGGAACCTCTGAACTTTGCCATTTCTTATAGCACATGCGTTTATTACAGTTGTGT
CTAATATTAGAATATGGCTACATATCCCCTGTCTGATGCAGCACATTATACCTTTTAGGACCTATGTTATTAGGT
ATTTATGCAAGCTCTCGGATCAGGAGTTACGACAGAGTGCAGCTCGTAACATGGCTGACTTAATGTGGAGCACAG
TCAAAGAACCATTGGATACAACATTATGCTTTGATAAAGAAAGCCTAGATCTTGCATTTAAGTACTTTATGTCAC
CTACTTTGACTATGAGGTTGGCTGGATTGAGTCAGATAACAAATCAACTCCATACCTTCAATGATGTGTGCAATA
ATGAATCATTAGTATCGGACACAGAAACGTCCATTGCAAAAGAACTTGCAGACTGGCTTATTAGCAACAATGTGG
TGGAGCATATATTTGGACCAAATTTACATATTGAGATTATCAAACAGTGCCAAGTGATTTTGAATTTTTTGGCAG
CAGAAGGGCGACTGAGTACTCAACATATTGACTGTATTTGGGCTGCAGCACAGTTGAAACATTGTAGTCGGTATA
TACATGACTTATTTCTTCACTCATCAAGAATTTGGATCCCGTACCCTTAGACATCTACTTAATCTGGTCTCAG
CTCTTGAGCCAAGTGTTCTACTGAACAGACACTGTACTTGGCATCCATGTTAATTAAAGCACTGTGGAATAACG
CACTAGCAGCTAAGGCTCAGTTATCTAAACAGAGTTCTTTTGCATCTTTATTAAATACTAATATTCCCATTGGAA
ATAAGAAAGAGGAAGAAGAGCTTAGAAGAACAGCTCCATCACCTTGGTCACCTGCAGCTAGTCTCAAAGCAGTG
ATAATAGCGATACACATCAAAGTGGAGGTAGTGACATTGAAATGGATGAGCAACTTATTAATAGAACCAAACATG
TGCAACAACGACTTTTCAGACACAGAGGAATCCATGCAGGGAAGTTCTGACGAACTGCCAACAGTGGTGAAGATG
GAAGCAGTGGTCTCTGGTAGCAGTAGTGGGCATAGTGATGGATCTAGCAATGAGGTTAATTCTAGCCACGCAAGCC
AGTCAGCTGGGAGCCCTGGCAGTGAGGTACAGTCAGAAGACATTGCAGATATTGAAGCCCTCAAAGAGGAAGATG
AAGACGATGATCATGGTCATAATCTCCCAAAGCAGTTGTGGTACAGATCTTCGGAATAGAAAGTTAGAGAGTC
AAGCAGGCATTTGCCTGGGGGACTCCCAAGGCACGTGAGAAAGAAATGGGACAAGCAGCGGAACAGGAAAGGACC
TGGTTTTTAACTGAATCATTGCCATCAGTAGATAATCGAATGCGAATGCTGGATGCTTGTTTCACTCTGAAG
ACCCAGAACATGATATTTTCAAGGGGAAATGAATGCTACTCATATAGCACAAAGGGTCTCAGGAGTCTTGATCACAC
GAACTGGGGACTTCTTGGGGAGACTATTGGGAATGAATTATTTAATTGTGACAATTTATTGGTCCACAGCATC
ACCACCACCACCACCACCATCACCACCACCACGATGGGCATATGGTTGATGATATGCTAAGTGCAGATGATGTCA
GTTGTAGTAGCTCCCAGGTTAGTGCAAAATCAGAAAAAATATGGCTGATTTTGTGTTGAGTGAAGAATCTGGATGTG
AAGAGGAGCTAGTTCAGATTAATTCACATGCGGAACGACATCTCACCTCCAACAACATCTTCCCAATTTAGCTT
CCATTTACCATGAACATCTTAGTCAAGGACCTGTAGTTCTATAACATCAATTCAACAGTAATGCTGTTACAGACA
TTAATTTGGATAATGTTTGCAAGAAAGGAAATACTTTGTTGTGGGATATAGTCCAAGATGAAGATGCAGTTAATC
TTTTCTGAAGGATTAATAAATGAAGCAGAGAACTTCTTTGTTGTTAGTATGTTGGTTTACAGATAGACAAATTC
GAATGAGATTCAATTGAAGGTTGCCCTGAAAACCTTGGGAAACAACAGATCAGTAGTAATTTCACTTCGTCTTCTC
CAAACTATTTTGGTACTTTTTCAGCAGTTTGGGAGCAGTTACGATACACACTGGATAACAATGTGGGCAGAAAAAG
AACTGAACATGATGAAGCTTTTCTTTGATAATTTGGTATACTACATTCAAACCTGTGAGAGAAGGAAGACAAAAAC
ATGCACTGTACAGCCATAGTGCTGAAGTTCAAGTTGCTCTTCAATTTCTTGAATTTGTGATTTTCAACTCTGGGAT
CACCTGATCATTTCAGGTTAAGTTTAGAGCAAGTTGACATCTTATGGCATTGTTTAGTAGAAGATTCTGAATGTT
ATGATGATGCACTCCATTGGTTTTTAAATCAAGTTGCAAGTAAAGATCAACATGCTATGGGTATGGAAACCTACA
AACATCTTTTCTGGAGAAGATGCCCCAGCTAAACCTGAAACAATTAGCATGACTGGCTTAAACCTGTTTCAGC
ATCTCTGTAACCTTGGCTCGATTGGCTACCAGTGCCTATGATGGTTGTTCAAATTTCTGAGCTGTGTGGTATGGACC
AATTTTGGGGCATTGCTTTAAGAGCACAATCTGGTGAATGTCAGTCGAGCAGCTATCCAGTATATTAACCTCTATT
ATATTAATGGTAAACAGGTTTGGAGAAGGAGCAAGAATTTATTAGTAAGTGCATGGAGAGTCTTATGATAGCTT
CTAGCAGTCTTGAACAGGAATCACACTCAAGTCTCATGGTTATAGAAAGAGGACTCCTTATGCTGAAGACACATC

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FIGURE 680B

TGGAAGCGTTTAGGAGAAGGTTTGCATATCATCTGAGACAGTGGCAAATTGAAGGCACTGGTATTAGTAGTCATT
TGAAAGCACTGAGTGACAAACAGTCTCTGCCGCTAAGGGTTGTATGCCAGCCAGCTGGACTTCCTGACAAGATGA
CTATTGAAATGTATCCTAGTGACCAGGTAGCAGATCTTAGGGCTGAAGTAACTCATTGGTATGAAAATTTACAGA
AAGAACAAATAAATCAACAAGCTCAGCTTCAGGAGTTTGGTCAAAGCAACCGAAAAGGAGAGTTTCCTGGAGGCC
TCATGGGACCTGTCAGGATGATTTTCATCTGGACACGAGTTAACAACAGATTATGATGAAAAAGCACTTCATGAGC
TTGGTTTTAAGGATATGCAGATGGTATTTGTATCTTTGGGTGCACCAAGGAGAGAGCGGAAAAGGGGAAGGTGTTT
AGCTGCCAGCATCTTGCCCTCCACCCCTCAGAAGGACAACATTCCAATGCTTTTGCTTTTACAAGAGCCTCATT
TAACTACTCTTTTTGATTTATTAGAGATGCTTGATCATTTTAAACCACCTCAGGAAAAAGTGGCAGTGGATGATA
GTGAGAGCTTACGATGTGAAGAAGTTTCATCTTCATGCAGAAAATCTGTCTAGGCGGGTCTGGGAGCTACTGATGC
TTCTTCTACATGTCCTAATATGTTGATGGCATTCCAGAATATCTCAGATGAGCAGAGTTTTTAAAAGCTCAGTCT
GATCACAGGTCTAGACATGAAGTTTCACATTATTCAATGTGGCTCTTGGTGAGTTGGGCTCATTGCTGTTCTTTA
GTGAAATCTAGCCTTGCTGATAGCGATCATTTACAAGATTGGCTAAAGAAATTGACTCTCCTTATTCTGAGACT
GCAGTTTGTGTCATGAATCATGCAGTGGTCTCTATAAGTTATCCCTGTCAGGGCTGGATGGAGGAGACTCAATCAAT
CGTTCTTTTCTGCTATTGGCTGCCTCAACATTATTGAAATTTCTTCCTGATGCTCAAGCACTCAAACCTATTAGG
ATAGATGATTATGAGGAAGAACCAATATTAAAACCAGGATGTAAAGAGTATTTTTGGTTGTTATGCAAATTAGTT
GACAACATACATATAAAGGACGCTAGTCAGACAACGCTCCTCGACTTAGATGCCTTGGCAAGACATTTGGCTGAC
TGTATTCTGAAGTAGGGAGATCCTTGATCATCAGGATGGTAATGTAGAAGATGATGGGCTTACAGGACTCCTAAGG
CTTGCAACAAGTGTGTTAAACACAAACCACCCTTTAAATTTTCAAGGGAAGGACAGGTAAGTGTTAAGATAATC
AAATGTTTCTATGAAATGTGATTGAAATTTTTTGTGTTACATTGTGTATTAGTCCGTTTTTACACTGCTCATAA
AGGCATACCCGAGACTGGGCAGTTTACAAAAGAAAAGGGTTTAAATTCGACTCAGAGTTCCATGTGGCTGGGGAGG
CCTCACAATCGTGCCGGAAGGCAAGTCCGGGCAAGTCCGAGCAAGTCGCATCTTATGTGAATGGCGGCAGGCAAA
AAAAGAATGAGAACCAAGCGAAAGCGGTTTCTCCTTATAAAACCATCAGATCTCAAGAGACTTATCACTTATCA
CAAGAACAGTATGGGGGAAACCGCCGCCATGATTCAATCATCTCCCACCAGGTCCCTCCCACAACAATGGGAATT
ATAGGCAATATAATTCAAGATGAGATTTGGGTGGAGACACGGCCAACTGTATCACATTGTATGTGGATATGTTA
ATTTTTTTAAACATACAGACATAAAAATTGCTAGAAATTACCGACAAGAAAAGCAAATTTGAATAAATTGAATT
CTGGAATATAAAACGGGCTTGTTTTTTAGAATACAAATCAGATGTTAATTCCTGTGACTGACTGAATATAGAAA
GGTAACCTAAGGCTGGGCACGGTGGCTCGTGCCTATAGTCCTGGCACTTTGAGTGGCTGAGGTGGGTGGATTGCT
TGAAACCAGGAGTTTCGAGACCAGCCAAGGCAACATGGTGAAACCTCATCCCTACAGAAAAATACAAAAATTTGCTG
GGTGTGGTGGCACACACCTGTAGTCTCAGCTACTCGGGAGGCTGAGGTGGGAGGATTGCTTGAGCTCAGGAGGTC
GAGGCTTCAGTGAGCCATGATCACACCACTGCCTGTAGCCTAGGTGACAGAAGGAGAACGTGTCTC

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FIGURE 681

MRRKNSYYVWQKIFQIQFPLYTAYKHNTHTPTIEDISTQESNILGAFCDMNDVEVPLHLLRYVCLFCGKNGLSLMK
DCFEGTPTETLPFLIAHAFITVVSNIIRIWLHIPAVMQHIIPFRTYVIRYLCKLSDQELRQSAARNMADLMWSTVK
EPLDTTLCFDKESLDLAFKYFMSPTLTMLRAGLSQITNQLHTFNDVCNNESLVSDTETSIAKELADWLISNNVVE
HIFGPNLHIEIIKQCQVILNFLAAEGRNSTQHIDCIWAAAQLKHCSRYIHDLFPSLIKNDPVPLRHLLNLVSAL
EPSVHTEQTLYLASMLIKALWNNALAAKAQLSKQSSSFASLLNTNIPIGNKKEEEELRRTAPSPWSPAASPQSSDN
SDTHQSGGSDIEMDEQLINRTKHVQQRLSDTEESMQSSDETANSGEDGSSGPGSSSGHSDGSSNEVNSSHASQS
AGSPGSEVQSEDIADIEALKEEDEDHGHNPCKSSCGTDLNRNKLKESQAGICLGDSQGTSENGTSSGTGKDLV
FNTESLPSVDNRMRMLDACSHSEDPEDHISGEMNATHIAQGSQESCITRTGDFLGETIGNELFNCRQFIGPQH
HHHHHHHHHDGHMVDDMLSADDVSCSSSQVSAKSEKNMADFGEESGCEEELVQINSHAELTSHLQQHLPLNLASI
YHEHLSQGPVVHKKHQNFAVTDINLDNVCKKGNLTLLWDIVQDEDAVNLSEGLINEAEKLLCSLVCWFTDRQIRM
RFIEGCLNENLGNRSVVISLRLLPKLFGTFQQFGSSYDTHWITMWAEEKELNMMKLFFDNLVYYYIQTVREGROKHA
LYSHSAEVQVRLQFLTCVFSTLGSPDHFRLSLEQVDILWHCLVEDSECYDDALHWFLNQVRSKDQHAMGMETKYH
LFLEKMPQLKPETISMTGLNLFQHLCLNARLATSAYDGCNSSELGMDQFWGIALRAQSGDVSRAAIQYINSYYI
NGKTGLEKEQEFISKMESLMIASSSLEQESHSSLMVIERGLLMLKTHLEAFRRRFAYHLRQWQIEGTGISSHLK
ALSDKQSLPLRVVCQFAGLPDKMTIEMYPQVADLRAEVTHWYENLQKEQINQQAQLQEFQSNRKGEFPGLM
GPVRMISSGHELTDDYDEKALHELGFKDMQMVVSLGAPRRERKGEVQLPASCLPPPQKDNIPMLLLLQEPHLT
TLFDLLEMLASFKPPSGKVAVDDESRLRCEELHLHAENLSRRVWELLMLLPTCPNMLMAFQNISDEQSFKSSV

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FIGURE 682

CCGGTGCAGCGGCTGGCGATCGGCCGCGGAGGTGCGTGCAGGGCCCCGCGCCGCGCGGTATCTCCACCGCCAAC
ACCTCAGCCACTGCCACTGCCACAGCCACACGAGGCCCCCCACCGTGCCTCCGCCGCTGCGGTCCCGGATCCGC
GCTCCACGCCCGCAGCCCGCGGCCACCAGCCCAGCATGACCAGCTCTTTTCAGAAAACCCAGAAATTTACTC
CGTGGAGCTCAGCGGAACATAAGGACATCGTGAAAACAGACAAGGGGGATGGCAAGGAGAAGTATAGGGGTCTGAA
GAACAACCTGCCTGGAACCTAAAAAGAAAAATCACAAAGAGGAGTTTCAGAAAGAACTCCATCTGGATGACCACAA
ACTCAGCAATAGGGAATTGGAAGAGAAATATGGCACAGACATCATTATGGGTCTCTCCAGCACCAGAGCTGCCGA
GCTCCTGGCCCCGGGATGGGCCCCAACTCCCTCACCCCTCCCAAGCAGACGCCTGAGATCGTCAAGTTCTCAAGCA
GATGGTGGGGGGTTCTCTATCCTCCTGTGGGTGGGCGCCTTTCTCTGTTGGATTGCATATGGGATTAGTACTC
CAGCGACAAGTCTGCATCCCTGAACAACGTGTACTTGGGCTGTGTGCTTGGTCTGGTGGTCATTTTAACGGGGAT
CTTTGCTTATTACCAAGAGGCCAAAAAGCACCAACATCATGTCCAGCTTCAATAAGATGATCCCTCAGCAAGCTCT
CGTCATCCGAGATTCCGAGAAGAAGACCATCCCTTCAGAGCAGCTGGTGGTGGGGGACATTGTGGAGGTCAAAGG
AGGAGACCAGATCCCTGCAGACATCAGGGTGTGTCTTCTCAGGGGTGTGGGTGGGATAACTCATCTCTCACGGG
GGAGTCTGAGCCCCAGCCCCGCTCCTCTGAGTTTACCCATGAAAACCCCTTGAAACAAAGAACATCTGCTTCTA
TTCCACAACGTGTCTGGAAGGCATGTACCCGGCATGGTTATCAACACGGGTGACCGCACCATCATTGGCCATAT
TGCTCATTTGGCCTCAGGAGTTGGAATGAGAAGACGCCCATTTGCCATTGAGATCGAGCACTTTGTTTACATTGT
GGCAGGAGTGGCTGTCTCCATCGGCATCCTTTTCTTCATCATCGCTGTGTCCCTGAAGTATCAAGTCTCTGGACTC
CATCATCTTCTCATTGGCATCATTGTGGCCATGTGCCCCAGGGCCTCCTGGCCACTGTCACTGTGACCCTGTCTC
GCTGACAGCAAAACGGATGGCCAAGAAGAACTGCCCTGGTGAAGAACCTGGAGGCTGTGGAGACCCTCGGCTCCAC
CTCCATCATCTGCTCGGACAAGACTGGGACACTGACCCAGAACAGGATGACAGTGGCCCATCTGTGGTTTCGACAA
TCAGATCTTTGTGGCTGACACCAGTGAGGACCATTCAAACCAAGTCTTTGACCAAAGCTCTAGGACTTGGGCCTC
CTTATCCAAGATAATAACATTGTGTAACCGAGCAGAGTTCAAGCCAGGACAGGAAAATGTCCCCATCATGAAGAA
AGCTGTGATTGGAGATGCCTCAGAACTGCTCTTTTAAATTTCTCAGAGGTCAATTTTGGGTGATGTGATGGAAT
TAGAAAAAGAAACCGCAAAGTAGCTGAAATCCCTTTTAACTCTACTAATAAATTTAGCTCTCCATCCACGAGAT
GGATGACCCCCACGGCAAGCGCTTCTCATGGTGATGAAGGGGGCCCTGAGCGCATTCTAGAGAAAATGCAGCAC
CATCATGATCAACGGCGAGGAGCACCCACTGGACAAGAGCACTGCCAAGACCTTCCACACAGCCTACATGGAGCT
GGGCGGGTTGGGCGAGCGTGTGCTGGGTTTCTGTCTCTTACCTGCCAGCAGACGAGTTTCCAGAAAACCTACTC
ATTTGACATAGACGCTATGAACCTTTCCGACCTCCAACCTCTGTTTTGTGGGACTCTTGTCAATGATCGATCCCC
TCGGTCCACCGTGCCAGATGCAGTCACCAATGCCGGAGTGCAGGGATCAAGGTTATTATGGTTACTGGTGATCA
TCCCATCACAGCCAAAGCTATTGCCAAGAGTGTGGGGATCATTTCAGCCAACAGTGAAACAGTGGAAGACATTGC
ACATCGCCTCAACATTGCTGTGGAGCAAGTTAACAAACGGGATGCCAAGGCCGCTGTGGTGACTGGCATGGAGCT
GAAGGACATGAGCTCAGAACAGCTGGATGAGATCTTAGCCAACCTACCAGGAGATTGTCTTTGCCCGGACATCCCC
CCAGCAGAAGCTGATCATTGTGGAGGGCTGTGAGAGGAGGATGCTGTGTTGCTGTGACCGGGGATGGAGTTAA
TGACTCTCCGGCTCTAAAGAAGGCAGACATTGGGATTGCCATGGGGATAGCAGGTTCTGATGCAGCCAAAAATGC
AGCCGACATGGTCTTGTGAGACGACAACCTTCGCATCCATCGTACAGGGGTGGAGGAAGGTGCGCTGATCTTTGA
CAACCTCAAGAAGACTATTGCTTATTCCCTGACCAAGAACATTGCCGAGCTGTGCCCCCTTCTGATCTACATCAT
TGTCGGGCTCCCCCTGCCCATTTGGCACCATCACCATTCTGTTTATTGACTTGGGGACAGACATTATCCCCCTCAT
TGCTTGGCGTACGAGAAAGCTGAAAGTGACATCATGAACAGGAAGCCTCGCCACAAGAATAAGGACAGGCTGGT
GAACCAGCCGCTCGCTGTGTACTCATACCTGCACATTGGCCTCATGCAAGCCCTGGGAGCTTTCTTGTGTATTT
CACCGTCTATGCACAAGAGGGCTTTCTGCCCCGCACTCTCATTAACTGCGGGTAGAATGGGAGAAGGACTACGT
GAATGACTTGAAAGACAGCTATGGGCAGGAATGGACAAGGTACCAGAGGGAATACCTAGAATGGACGGGCTACAC
GGCTTTCTTTGTTGGCATCCTAGTCCAGCAAATAGCAGATCTGATCATCAGGAAAACCCGGAGGAATTCCATCTT
CCAGCAGGGTCTCTTCAGAAATAAAGTCATCTGGGTGGGGATCACCTCACAGATCATCATTGGTCTGATCCTCTC
CTATGGCCTCGGAAGTGTACAGCCTTGAGTTTACCATGCTTAGGGCTCAGTACTGGTTTGTGGCTGTGCCGCA
CGCCATCCTGATCTGGGTGTATGATGAGGTGCGGAAGCTCTTCATCAGGCTCTACCCTGGAAGCTGGTGGGATAA
GAACATGTATTATTAAAGACCACCTCCCTTCTATGTCTCTCAGCAGCACGTTGGGGCACACTTGTTCATCTTCTG
ACCGTTTGTCTGGGCTATTCCCTGCAGTGCAGACATCGTCAAAATTCATACAAGAGGAAATTTTCATGCAGAAAG
CTGTATGCAGGATGCTCACTGATGTTTTGCACTTTAAACTGAAATTCAACTCTTTATATAGGATTTTCTTTTCT
ATCTCCATCTCCTCATTAAAAAATACGTACATTTCGAGGTAATGGTAT

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FIGURE 683

MHQLFQKTPEIYSVELSGTKDIVKTDKGDGKEKYRGLKNNCLELKKKNHKEEFQKELHLDHKL SNRELEEKYGT
DIIMGLSSTRAAELLARDGPN SLTPPKQTPEIVKFLKQMVGGFSILLWVGAFLCWIA YGIQYSSDKSASLNNVYL
GCVLGLVVILT GIFAYYQEAKSTNIMSSFNKMIPQQALVIRDSEKKTIPSEQLVVGDIVEVKGGDQIPADIRVLS
SQGCRVDNSSLTGESEPPQRSSEF THENPLETKNICFYSTTCLEGTVTGMVINTGDRTIIGHIASLASGVGNEKT
PIAIEIEHFVHIVAGVAVSIGILFFIIAVSLKYQVLDSIIFLIGIIVANVPEGLLATVTVTLSLTAKRMAKKNCL
VKNLEAVETLGSTSIICSDKTGTLTQNRMTVAHLWFDNQIFVADTSEDHSNQVFDQSSRTWASLSKIITLCNRAE
FKPGQENVPI MKKAVIGDASETALLKFSEVILGDVMEIRKRNKVAEIPFNSTNKFQLSIHEMDDPHGKRFLMVM
KGAPERILEKCSTIMINGEEHPLDKSTAKTFHTAYMELGGLGERVLGFCHLYLPAD EFPETY SFDIDAMNFPTSN
LCFVGLLSMIDPPRSTV PDAVTKCRSAGIKVIMVTGDHPITAKAIAKSVGII SANSETVEDIAHRLNIAVEQV NK
RDAKAAVVTGMELKDMSS EQLDEILANYQEIVFARTSPQOKLIIVEGCQRQDAVVAVTGDGVNDSPALKKADIGI
AMGIAGSDAAKNAADMVLLDDNFASIVTGVEEGR LIFDNLKKTIA YSLTKNIAELCPFLIYII VGLPLPIGTITI
LFIDLGTDIIPSIALAYEKAESDIMNRKPRHKNKDRLVNQPLAVYSYLHIGLMQALGAF LVYFTVYAQEGFLPRT
LINLRVEWEKD YVNDLKDSYGQEWTRYQREYLEWTGYTAFFVGILVQQIADLIIRKTRNSIFQQGLFRNKVIWV
GITSQIIIGLILSYGLGSVTALSFTMLRAQYWFVAVPHAILIWVYDEV RKLFIRLYPGSWWDKNMY

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FIGURE 684

CCCAGACACCTGCTCACTCACCACCAGCTGGGCTCCGCTGGGCCTGCCCGGCACCCACCCCGGCCACCAAGGGCA
GCAGCTTTTCCAGAATTTGGCTGGCAGGCCTAGTCACCCACCTCGCCACCTCACCCTGCACCTCGGAGGCCAG
CCCTGTCCACTCCACTCTGTGCCTGGCTTCTCTTGCCTGCCTTGGGCCTTCGTGTGGCCCTCCACGGTGTCTGGG
ACTGAGTGCCCCCTCTTGCTCCTGAAGAGCAGCCATGGCCACCTACAAAGTCAGGGTGGCCACAGGCACCGACCT
CTTGTCGGGAACACGGGACTCCATCTCACTGACCATTGTGGGGACACAAGGAGAGAGCCATAAGCAGCTGCTGAA
CCACTTTGGGAGAGACTTTGCAACTGGGGCGGTGGGCCAGTACACCGTGCAGTGCCCTCAGGACCTGGGTGAGCT
CATCATCATCCGCTGCACAAAGAGCGGTACGCCTTCTTCCCAAGGACCCTTGGTACTGCAACTATGTGCAGAT
CTGTGCCCCCAACGGCCGTATCTACCCTTCCCGCCTACCAGTGGATGGATGGCTACGAGACCCTGGCACTCCG
GGAGGCCACAGGAAAGACAACAGCAGATGACTCGCTCCCGTCTCCTGGAGCACAGAAAAGAGGAGATCAGAGC
CAAGCAGGACTTCTACCCTGGCGAGTCTTTCTTCTGGCCTGCCAGCTATGTGCACATTCCCAGTTACCGCCC
TCCGGTGGGAGGCATCGCAACCCCAACGGCCTGAGTGGAAATGGCTATATTCCGGGATTCCCAATTCTCATCAA
CTTTAAGGCCACCAAGTTCTGAACTTAAATCTCCGCTACTCCTTCTCAAGACGGCCTCCTTCTTCGTCCGCCT
GGGGCCCATGGCACTGGCTTTCAAAGTCCGCGGCCTGTTGGACTGCAACATTTCGTGGAAGAGGCTGAAGGACAT
TAGGAAAATTTTCCCTGGCAAGAAATCTGTCTCTCCGAGTACGTGGCCGAGCACTGGGCAGAGGACACCTTCTT
TGGGTACCAGTACCTCAACGGCGTCAACCCCGGCCTGATCCGCCGCTGCACGCGGATCCCAGACAAGTTCCCGT
CACAGACGACATGGTGGCTCCGTTCTGGGCGAGGGAACGTGCTTGCAAGCGGAGCTGGAGAAGGGGAACATTTA
CCTGGCCGACTACCGCATCATGGAGGGCATCCCCACCGTGGAGCTCAGCGCCGGAAGCAGCACCCTGCGCCCC
CCTCTGCCTGCTGCACCTTTGGACCCGAGGGCAAGATGATGCCCATCCAGCTCAGCCAGACCCTGGGCC
AGATTGCCCCATCTTCTGCCCAGTGATTCTGAGTGGGACTGGCTGCTAGCCAAGACGTGGGTACGCTATGCGGA
GTTCTACAGCCACGAGGCCATCGCCACCTGCTGGAGACACACCTCATTGCTGAGGCCTTCTGCCTGGCCTTGCT
GAGGAACCTGCCCCATGTGCCACCCCTCTACAAGCTCCTCATCCCCATAACCGATAACCGTCCAGATCAACAG
CATTGGCCGGGCCGTTCTCCTCAATGAGGGGGGGCTCTCTGCCAAGGGCATGTCCCTGGGCGTGGAAGGCTTTGC
TGGGGTGATGGTACGGGCTCTGTCTGGAGCTCACCTATGACAGCTTGGCGGTGTGGAATGCACTGGAGAAGTATGTGAC
GGTCCAGGACCTGCCTGGATATTACTACCGCATGACAGCTTGGCGGTGTGGAATGCACTGGAGAAGTATGTGAC
GGAGATCATCACCTATTATTACCCGAGTGACGCAGCCGTGGAGGGTGATCCGGAATTGCAGTCTTGGGTGCAGGA
AATATTTAAAGAGTGCTCCTGGGGCGGGAGAGCTCAGGCTTCCCTAGGTGCTTGCGAACCGTGCTGAGCTGAT
CCGATATGTCACTATAGTCATCTACACCTGCTCTGCCAAGCACGCTGCTGTCAACACAGGCCAGATGGAGTTCAC
CGCCTGGATGCCCAACTTCCCAGCGTCCATGCGGAATCCACCGATTCACTAAGGGGCTGACCACTCTGGAGAC
CTTCATGGACACGTTGCCGGATGTGAAGACCACGTGCATCACGCTGCTGGTGCTCTGGACCCTCAGCCGAGAGCC
TGACGACAGGCGGCCCCCTGGGACACTTCCCGGACATTCACTTCGTGGAGGAGGCCCCGCGGAGGAGCATAGAGGC
GTTCCGCCAGCGCCTGAACCAGATCTCACACGACATCCGCCAGCGCAACAAGTGCTTCCCATCCCCTACTACTA
CCTGGACCCGGTGCTGATTGAGAACAGCATTCTATTATAGGAGCGCGCTTCCCGTCTCTCCTCTCCCCATTCTGT
GCCCTACTATTTTCAACAAAACAAAACAAACAAGCAAAAACACAAAACCTCAGAGACCAAAAACACCA

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FIGURE 685

MATYKVRVATGTDLLSGTRDSISLTIVGTQGESHKQLLNHFGRDFATGAVGQYTVQCPQDLGELIIIRLHKERYA
FFPKDPWYCNYVQICAPNGRIYHFPAYQWMDGYETLALREATGKTTADDSLPVLLHRKEEIRAKQDFYHWRVFL
PGLPSYVHIPSYRPPVRRHRNPNRPEWNGYIPGFPILINFKATKFLNLNLRYSFLLKTASFFVRLGPMALAFKVRG
LLDCKHSWKRLKDIRKIFPGKKSUVSEYVAEHWAEDTFFGYQYLNQVNPGLIRRCTRIPDKFPVTDDMVAPFLGE
GTCLQAELEKGNIIYLADYRIMEGIPTVELSGRKQHHCAPLCLLHFGPEGKMPPIAIQLSQTPGPDCEIFLPSDSE
WDWLLAKTWVRYAEFYSEAHIAHLLETHLIAEAFCLALLRNLPMPCHPLYKLLIPHTRYTVQINSIGRAVLLNEGG
LSAKGMSLGVEGFAGVMVRALSELTYSYLPNDFVERGVQDLPGYYYRDDSLAVWNALEKYVTEIITYYYPSDA
AVEGDPELQSWVQEIFKECLLGRESSGFPRCLRTVPELIRYVTIVITYTCSAKHAAVNTGQMEFTAWMPNFPASMR
NPPIQTKGLTTLETTFMDTLPDVKTTCTILLVLWTLREPDRRPLGHFPDIHFVEEAPRRSIEAFRQRLNQISHD
IRQRNKCLPIPIYYYLDPVLIENSISI

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FIGURE 686

TTGAACTCCTGGAGCCCGTCACCCAGGAAACCGGCCGCAATCGCCGGCCGACCTGAAGCTGGTTTC**ATGG**CAGCC
TCAAAGAAGGCAGTTTTTGGGGCCATTGGTGGGGGCGGTGGACCAGGGCACCAGTTTCGACGCGCTTTTTGGTTTTT
AATTCAAAAACAGCTGAACTACTTAGTCATCATCAAGTAGAAATAAAACAAGAGTTCCCAAGAGAAGGATGGGTG
GAACAGGACCCTAAGGAAATTCTACATTCTGTCTATGAGTGTATAGAGAAAACATGTGAGAAACTTGGACAGCTC
AATATTGATATTTCCAACATAAAAGCTATTGGTGTGTCAGCAACCAGAGGGAAACCACTGTAGTCTGGGACAAGATA
ACTGGAGAGCCTCTCTACAATGCTGTGGTGTGGCTTGATCTAAGAACCCAGTCTACCGTTGAGAGTCTTAGTAAA
AGAATTCCAGGAAATAATAACTTTGTCAAGTCCAAGACAGGCCTTCCACTTAGCACTTACTTCAGTGCAGTGAAA
CTTCGTTGGCTCCTTGACAATGTGAGAAAAAGTTCAAAAGGCCGTTGAAGAAAAACGAGCTCTTTTTGGGACTATT
GATTCATGGCTTATTTGGAGTTTGACAGGAGGAGTCAATGGAGGTGTCCACTGTACAGATGTAACAAATGCAAGT
AGGACTATGCTTTTCAACATTCACTTTTGGAAATGGGATAAAACAACCTCTGCGAATTTTTTGGAAATTCGAATGGAA
ATTCTTCCAAATGTCCGGAGTTCTTCTGAGATCTATGGCCTAATGAAAGCTGGGGCCTTGAAGGTGTGCCAATA
TCTGGGTGTTTTAGGGGACCAGTCTGCTGCATTGGTGGGACAAATGTGCTTCCAGATTGGACAAGCCAAAAATACG
TATGGAACAGGATGTTTTCTTACTATGTAATACAGGCCATAAGTGTGTATTTTCTGATCATGGCCTTCTCACCACA
GTGGCTTACAACTTGGCAGAGACAAACCAGTATATTATGCTTTGGAAGGTTCTGTAGCTATAGCTGGTGTCTGT
ATTCGCTGGCTAAGAGACAATCTTGAATTATAAAGACCTCAGAAGAAATTGAAAAACTTGCTAAAGAAGTAGGT
ACTTCTTATGGCTGCTACTTCGTCCCAGCATTTCGGGGTTATATGCACCTTATTGGGAGCCCAGCGCAAGAGGG
ATAATCTGTGGACTCACTCAGTTCACCAATAAATGCCATATTGCTTTTGCTGCATTAGAAGCTGTTTGTTCCTCAA
ACTCGAGAGATTTTGGATGCCATGAATCGAGACTGTGGAATTCACCTCAGTCATTTGCAGGTAGATGGAGGAATG
ACCAGCAACAAAATTCCTTATGCAGCTACAAGCAGACATTCTGTATATACCAGTAGTGAAGCCCTCAATGCCCCGAA
ACCACTGCCTGGGTGCGGCTATGGCGGCAGGGGCTGCAGAAGGAGTCGGCGTATGGAGTCTCGAACCCGAGGAT
TTGTCTGCCGTCACGATGGAGCGGTTTGAACTCAGATTAATGCGGAGGAAAGTGAAATTCGTTATTCTACATGG
AAGAAAGCTGTGATGAAGTCAATGGGTTGGGTTACAACCTCAATCTCCAGAAAGTGGTATTCCAT**TAAA**ACCTACCA
ACTCATGGATTCCCAAGATGTGAGCTTTTTACATAATGAAAGAACCCAGCAATTCTGTCTCTTAATGCAATGACA
CTATTCATAGACTTTGATTTTATTTATAAGCCACTTGCTGCATGACCCTCCAAGTAGACCTGTGGCTTAAAAATAA
AGAAAATGCAGCAAAAAGAATGCTATAGAAATATTTGGTGGTTTTTTTTTTTTTAAACATCCACAGTTAAGGTTG
GGCCAGCTACCTTTGGGGGTGACCCCCCATTTGCCATAACATCCTGCTCCATTCCCTCTAAGATGTAGGAAGAA
TTCGGATCCTTACCATTGGAATCTTCCATCGAACATACTCAAACACTTTTGGGCCAGGATTTGAGTCTCTGCATG
ACATATACTTGATTAAAAGGTTATTACTAACCTGTTAAAAATC

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FIGURE 687

MAASKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPRGWVEQDPKEILHSVYECIEKTCEKL
GQLNIDISNIKAIGVSNQRETTVVWDKITGEPLYNAVWLDLRTQSTVESLSKRIPGNNNFVKSKTGLPLSTYFS
AVKLRWLLDNVRKVQKAVEEKRALFGTIDSWLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLEWDKQLCEFFGI
PMEILPNVRSSEIYGLMKAGALEGVPISGCLGDQSAALVGQMCFOIGQAKNTYGTGCFLLCNTGHKCVFSDHGL
LTTVAYKLGRDKPVYYALEGSVAIAGAVIRWLRDNLGIIKTSEEIEKLAKEVGTSYGCYFVPAFSGLYAPYWEPS
ARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRDCGIPLSHLQVDGGMTSNKILMQLOADILYIPVVKPS
MPETTALGAAMAAGAAEGVGVSLEPEDLSAVTMERFEPQINAESEIRYSTWKKAVMKSMGWVTTQSPESGIP

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FIGURE 688

GTACCTGTCTATAAGGAGTCCCTGCTTATCACAAATGAATGTTCTCCTGGGCAGCGTTGTGATCTTTGCCACCTTCG
TGACTTTATGCAATGCATCATGCTATTTTCATACCTAATGAGGGAGTTCCAGGAGATTCAACCAGGAAATGCATGG
ATCTCAAAGGAAACAAACACCCAATAAACTCGGAGTGGCAGACTGACAACTGTGAGACATGCACTTGCTACGAAA
CAGAAATTTTCATGTTGCACCCTTGTTTCTACACCTGTGGGTTATGACAAAGACAACTGCCAAAGAATCTTCAAGA
AGGAGGACTGCAAGTATATCGTGGTGGAGAAGAAGGACCCAAAAAGACCTGTTCTGTCAGTGAATGGATAATCT
AATGTGCTTCTAGTAGGCACAGGGCTCCCAGGCCAGGCCTCATTCTCCTCTGGCCTCTAATAGTCAATGATTGTG
TAGCCATGCCTATCAGTAAAAAGATTTTTGAGCAAACACTTGAATATGTGTGTCCTTTTAATTTATAATTTATGT
ATGCATTGATTTAATACACATTATAAAGAATACAAAACATTTAAAAA

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FIGURE 689

MNVLLGSVVIFATFVTLNASCYFIPNEGVPGDSTRMFLHLWVMTKTTAKESSRRRTASISWRRRTQKRPVLŠV
NG

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FIGURE 690

ACACTCTACCACCAATGAATCCATTCCCTGATCCTTGCCTTTGTGGGAGCTGCTGTTGCTGTCCCCTTTGACGATGA
TGACAAGATTGTTGGGGGCTACACCTGTGAGGAGAATTCTCTCCCCTACCAGGTGTCCCTGAATTCTGGCTCCCA
CTTCTGCGGTGGCTCCCTCATCAGCGAACAGTGGGTGGTATCAGCAGCTCACTGCTACAAGACCCGCATCCAGGT
GAGACTGGGAGAGCACAAACATCAAAGTCCTGGAGGGGAATGAGCAGTTCATCAATGCGGCCAAGATCATCCGCCA
CCCTAAATACAACAGGGACACTCTGGACAATGACATCATGCTGATCAAACCTCTCCTCACCTGCCGTCATCAATGC
CCGCGTGTCCACCATCTCTCTGCCCACCGCCCCCTCCAGCTGCTGGCACTGAGTGCCTCATCTCCGGCTGGGGCAA
CACTCTGAGCTTTGGTGCTGACTACCCAGACGAGCTGAAGTGCCTGGATGCTCCGGTGCTGACCCAGGCTGAGTG
TAAAGCCTCCTACCCTGGAAAAGATTACCAACAGCATGTTCTGTGTGGGCTTCCTTGAGGGAGGCAAGGATTCTTG
CCAGCGTGACTCTGGTGGCCCTGTGGTCTGCAACGGACAGCTCCAAGGAGTTGTCTCCTGGGGCCATGGCTGTGC
CTGGAAGAACAGGCCTGGAGTCTACACCAAGGTCTACAACATATGTGGACTGGATTAAAGGACACCATCGCTGCCAA
CAGCTAAAGCCCCCGGTCCCTCTGCAGTCTCTATACCAATAAAGTGGCCCTGCTCTC

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FIGURE 691

MNPFLILAFVGA AVVPFDDDDKIVGGYTCEENSLPYQVSLNSGSHFCGGS LISEQWVVSAAHCYKTRIQVRLGE
HNIKVLEGNEQFINAAKIIRHPKYNRDTLDNDIMLIKLS SPAVINARVSTISLPTAPPAAGTECLISGWNTLSF
GADYPDELKCLDAPVLTQAECKASYPGKITNSMFCVGFLEGGKDSCQRDSGGPVVCNGQLQGVVSWGHGCAWKNR
PGVYTKVYNYVDWIKDTIAANS

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FIGURE 692

GAGTGGGAATCTCAAAGCAGTTGAGTAGGCAGAAAAAGAACCTCTTCATTAAAGGATTAAAATGTATAGGCCAGC
ACGTGTAACCTTCGACTTCAAGATTTCTGAATCCATATGTAGTATGTTTCATTGTCGTCGCAGGGGTAGTGATCCT
GGCAGTCACCATAGCTCTACTTGTTTACTTTTTAGCTTTTGATCAAAAATCTTACTTTTATAGGAGCAGTTTTCA
ACTCCTAAATGTTGAATATAATAGTCAGTTAAATTCACCAGCTACACAGGAATACAGGACTTTGAGTGGAAGAAT
TGAATCTCTGATTACTAAAACATTCAAAGAATCAAATTTAAGAAATCAGTTTCATCAGAGCTCATGTTGCCAAACT
GAGGCAAGATGGTAGTGGTGTGAGAGCGGATGTTGTCATGAAATTTCAATTCACTAGAAATAACAATGGAGCATC
AATGAAAAGCAGAATTGAGTCTGTTTTACGACAAATGCTGAATAACTCTGGAAACCTGGAAATAAACCCCTTCAAC
TGAGATAACATCACTTACTGACCAGGCTGCAGCAAATTGGCTTATTAATGAATGTGGGGCCGGTCCAGACCTAAT
AACATTGTCTGAGCAGAGAATCCTTGGAGGCACTGAGGCTGAGGAGGGAAGCTGGCCGTGGCAAGTCAGTCTGCG
GCTCAATAATGCCACCCTGTGGAGGCAGCCTGATCAATAACATGTGGATCCTGACAGCAGCTCACTGCTTCAG
AAGCAACTCTAATCCTCGTGAAGTGGATTGCCACGTCTGGTATTTCCACAACATTTCTAAACTAAGAATGAGAGT
AAGAAATATTTTAATTCATAACAATTATAAATCTGCAACTCATGAAAATGACATTGCACCTTGTGAGACTTGAGAA
CAGTGTACCTTTACCAAAGATATCCATAGTGTGTGTCTCCCAGCTGCTACCCAGAATATTCCACCTGGCTCTAC
TGCTTATGTAACAGGATGGGGCGCTCAAGAATATGCTGGCCACACAGTTCCAGAGCTAAGGCAAGGACAGGTCAG
AATAATAAGTAATGATGTATGTAATGCACCACATAGTTATAATGGAGCCATCTTGTCTGGAATGCTGTGTGCTGG
AGTACCTCAAGGTGGAGTGGACGCATGTCAGGGTGACTCTGGTGGCCCCACTAGTACAAGAAGACTCACGGCGGCT
TTGGTTTATTGTGGGGATAGTAAGCTGGGGAGATCAGTGTGGCCTGCCGATAAGCCAGGAGTGATATACTCGAGT
GACAGCCTACCTTGACTGGATTAGGCAACAACTGGGATCTAGTGCAACAAGTGCATCCCTGTTGCAAAGTCTGT
ATGCAGGTGTGCCTGTCTTAAATTCCAAAGCTTTACATTTCAACTGAAAAAGAACTAGAAATGTCCTAATTTAA
CATCTTGTTACATAAATATGGTTTAACAAACACTGTTTAACCTTTCTTTATTATTAAAGGTTTTCTATTTCTCC

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FIGURE 693

MYRPARVTSTSRFLNPYVVCFIVVAGVVILAVTIALLVYFLAFDQKSYFYRSSFQLLNVEYNSQLNSPATQEYRT
LSGRIESLITKTFKESNLRNQFIRAHVAKLRQDGSQVRADVVMKFQFTRNNNGASMKSRIESVLRQMLNNSGNLE
INPSTEITSLTDQAAANWLINCEGAGPDLITLSEQRILGGTEAEEGSPWPQVSLRLNNAHHCGLINNMWILTA
AHCFRSNSNPRDWIATSGISTTFPKLRMRVRNLIHNNYKSATHENDIALVRLNSVTFTKDIHSVCLPAATQNI
PPGSTAYVTGWGAQEYAGHTVPELRQGQVRIISNDVCNAPHSYNGAILSGMLCAGVPQGGVDACQGDSSGGLVQE
DSRRLWFIVGIVSWGDCGLPDKPGVYTRVTAYLDWIRQQTGI

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FIGURE 694

TCGAATTCCGGAAGCCGCTCCCGACACCCTTTGCCCTGGCTCTGTCCATATTAGTTCCCAGGCGGCCGTCGCGTTC
CAGCAGCGGCACGCAGCGCAGGCGGAGCGGCAGCGGGGCCCTCGGCTCTATAGAGCCGAGCCGCTGGTACCCGCCC
GGTACCGCGCGAGCCAGTGCCCCCTGGATCTTGCCCTCTGCTCCGACGCCGTTCCCCACCAGTTAGCGACAGCGCCC
GCCCCCTCTGAGGAGACACGAAGGTGGTTCCCCAGCCGCTCAAATTTCCGGACCACCGCGCTTTCCCCTCCTCAGC
CTGGGCTGTGCTCTCTCTAGAACTCCTCGGGCCCCCACTTTCTTCCCAAACCTCATCTAAATCTCTCACACACGCG
AGTGTTCCCAGCCCTCAAGCCAGCTGCTCCTCCTCCGTTTCATTTTCTGCCCCCTCTTCGCAAAGCACCCCCGGGAT
CATCTCCGAGGGCGACTTTTTGAGAAATCTCGGTGGAGTAGTGGACCAGAGCAGGGGAGTTTTTAAAAGCCGGG
GCGCGAGAAACAGGAAGGTACTATCGGCTTCTCTGCTGGAACGATGATGATCTCACTATCCCCAGAGCTGCTAT
CAATAAAATGATCAAAGAGACTCTTCCTAATGTCCGGGTGGCCAACGATGCTCGAGAGCTGGTGGTGAAGTGGT
CACTGAATTCATTACCTTATATCTTCTGAAGCCAATGAGATTTGTAACAAATCGGAAAAGAAGACCATCTCACC
AGAGCATGTCATACAAGCACTAGAAAAGTTTGGGATTTGGCTCTTACATCAGTGAAGTAAAAGAAGTCTTGCAAGA
GTGTAAAACAGTAGCATTAAAAAGAAGAAAGGCCAGTTCTCGTTTGGAAAACCTTGGCATTCTGAAGAAGAGTT
ATTGAGACAGCAACAAGAATTATTTGCAAAAAGCTAGACAGCAACAAGCAGAATTGGCCCAACAGGAATGGCTTCA
AATGCAGCAAGCTGCCCAACAAGCCCAGCTTGCTGCTGCCTCAGCCAGTGCATCTAATCAGGCGGGATCTTCTCA
GGATGAAGAAGATGATGATGATATCTGAAATTCACCAGCTGAGTTTCTATTTCTTCTATAAATGTTTTTCCCTGC
ACAACAAAACAGTGAAAGAAATGCTTATCTGTAATTTTGATGTCATCTTGGTGGACTTGTGATTGGTATTCTAG
AGATGTCTGCTATAAGTTTCATCTGTTGTGTGCTATACATGTAAAACTGTCTCTTTGAACTATTGAAAATTTAA
GGTTCAGTATAATATCAATTTTGAATTTTCCCTGGTGTATGAAATTTTAGATAGCAGCAAGTCTTCGTTTGAT
CATAACAGTGTACAGATAACTCAA

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FIGURE 695

MASSSGNDDDLTIPRAAINKMIKETLPNVRVANDARELVVNCCTEFIHLISSEANEICNKSEKKTISPEHVIQAL
ESLGFGSYISEVKEVLQECTVALKRRKASSRLENLGIPEEELLRQQQELFAKARQQQAELAQQEWLQMQQAAQQ
AQLAAASASASNQAGSSQDEEDDDDI

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FIGURE 696

ACTGGTTTTGCGAGTGGAGGATGCAGTCTCTTTGTGGTTCCTGGTCCTGTTTGAGAACCTGGGGTCTTGAGGTGG
CCTGTCTGTGCCTCTCCTTTGTTTCGGCCTGGGCTGGGTGGTGCTTGTGAGCATTGCTCCAGGATCCGCAGACG
TTTCGGTGGTGACACCTGCCACGCACACGTGCCGCACTGGGGACCAGGAACAGGGATGAGTCAGGCACAGTCCTT
GCCTTCTGGGAGCTCATGGTCCAGAATTGAGGATTCCTCAACAGATGTCCCTTGAGCGCAGAGGATCTGGCAGC
CCCTTCTCAGGGGGCCGGGGCCACCAGATGTTGCATGCTGAGGGTATTTTACTTTAACACCCATGGTGTGTCTAG
GAGACTGAGGTTTCCCTGGTTTCATACTTGCTATCTTTCCCTCACGCTGTGCCTGTCCCCAGCCTGGAAGGATAGG
TCAGAAATCCTTCAAGGTAGCTGTTTCAGGAGATCTTTTCTGGCCCCAGGTCAAGTTCTCTTTGGTTCCGTCCT
GAGCTCATTACCTCCTGGTGAATCATCACACCATATTTATTGGACACCTACAGCTTGCTAAGCATTATATAGAGG
CCTGTCTTTGAGGAAAGGAAATTAAACAAGCCCTGTACAGATCCCCAAGATGAGAAGTAGCTTTAGTTGAGGCC
ACTGCTGCTCTTAGCTTCTCTGGCCCATCTATGCTTCTAGATGGAACGTGTGTTTAAAGATGCAGATTACAGGTGT
GAGCCACCACACCCAGCCCAGGCTCATTCTTTTAAACAGCCTTAGCGCAACTACTAATGCCACCAAGAGCGGACAG
GAAGGCCTGGGTCCCATCCCCCTTGCGAAGCCAGTAGGTGAAACATGGCAGCTTGGCCTGGTTCCACTTGTCATCGC
CTTTTGGTCTCTACAGTAATCCTCAGAGTGGCCCAGGTGGGTAGTTGGTTGGTTGGTTTTTTTTTTTTCAGACGGT
GTCTCGCTCTCTCGCCCAGGCTGGAGTGCAGTGGTGCACCTCGGCTCACTGCAACCTCTGTCTCCTGGGTTTTAA
GTGATTCTTCTTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGTCATGTGCCACCACGCCCCGGCTAATTTTTT
GTATTTTTTAGTAGAGACGGGTTTCACCATATTGACCAGGCTGGTCTCGAACTCCTGACCTCATGATCTGCCCGCC
TCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGGCCAACAGCGGGAAGTATTTTTTCCATTGAG
TAGATGAGCAGAATGAGACTCAAGGGTTGCTCAGATGGGCCGGGCATGGTGGCTCACGCCTGTAACCTCAGCAC
TGTGGGAGGCCAAGGGGGCAGATCACTTCAGGTGCGGAGTTCCAGACCAGCCTGTTCAACATGGCGAAACCCCAT
TCTACCAAACTACAAAAATTAGCCGGGCTCACGCCTGAAATCCCAGCACTTTGGGAGACTGAGGAGGGGTCACC
TGAGGTGAGGATGTCAAGATCAGACTGGCCAACAGAATGAAACCCTGTCTCTACAAAAATACAAAAATTAGGCCG
GGTGCCGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCAGATCACAAGGTCAGGTGATCGA
GACCATCCTGGCTAACTTGGTGAAACCCTGTCTCTACTAAAAAAAATAACAGAAAGTTAGCCGGGCGTGCCACC
TGTAGTCCCAGCTACTCTGGAGGCTGAAGCAGGAGAATGGCATGAACCCGGGTGGCGGGCGCTTGCAGTGAGCTGA
GCTCCCACTGCCTCCAGCCTGGGCGACACAGCGAGATTTCCTATCTAAAAAAA

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FIGURE 697

MSQAQSLPSGSSWSRIEDSLNRCPLSAEDLAAPSQGAGAHRCMLRVFYFNTHGVSRRLRFPWFHTCYLSSRCAC
PQPGRIGQKSFKVAVSGDLFLAPGQVLFGSVLSSLPPGESSHHIYWTPTAC

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FIGURE 698A

CATGTCGGGCTCCACACAGCTTGTGGCACAGACGTGGAGGGCCACTGAGCCCCGCTACCCGCCCCACAGCCTTTC
CTACCCAGTGCAGATCGCCCGGACGCACACGGACGTCGGGCTCCTGGAGTACCAGCACCCTCCCGGCACTATGC
CTCCACCTGTCGCCGGGCTCCATCATCCAGCCCCAGCGGCGGAGGCCCTCCCTGCTGTCTGAGTTCAGCCCCG
GAATGAACGGTCCCAGGAGCTCCACCTGCGGCCAGAGTCCCACTCATACCTGCCCGAGCTGGGGAAGTCAGAGAT
GGAGTTCATTGAAAGCAAGCGCCCTCGGCTAGAGCTGCTGCCTGACCCCTGCTGCGACCGTCACCCCTGCTGGC
CACGGGCCAGCCTGCGGGATCTGAAGACCTACCAAGGACCGTAGCCTGACGGGCAAGCTGGAACCGGTGTCTCC
CCCCAGCCCCCGCACACTGACCCTGAGCTGGAGCTGGTGCCGCCACGGCTGTCCAAGGAGGAGCTGATCCAGAA
CATGGACCGCTGGACCGAGAGATCACCATGGTAGAGCAGCAGATCTCTAAGCTGAAGAAGAAGCAGCAACAGCT
GGAGGAGGAGGCTGCCAAGCCGCGGAGCCTGAGAAGCCCGTGTACCCGCGCCCATCGAGTCGAAGCACCGCAG
CCTGGTGAGATCATCTACGACGAGAACCAGGAAGAAGGCTGAAGCTGCACATCGGATTCTGGAAGGCCTGGGGCC
CCAGGTGGAGCTGCCGCTGTACAACAGCCCTCCGACACCCGGCAGTATCATGAGAACATCAAAATAAACAGGC
GATGCGGAAGAAGCTAATCTTGTACTTCAAGAGGAGGAATCACGCTCGGAAACAATGGAAGCAGAAGTTC TGCCA
GCGCTATGACCAGCTCATGGAGGCCTTGGAAGGAGGTGGAGCGCATCGAAAACAACCCGCGCCGGCGGGCCAA
GGAGAGCAAGGTGCGCGAGTACTACGAAAAGCAGTTCCCTGAGATCCGCAAGCAGCGCGAGCTGCAGGAGCGCAT
GCAGAGCAGGGTGGGCCAGCGGGGAGTGGGCTGTCCATGTGCGCCGCGCCGAGCGAGCACGAGGTGTCAGAGAT
CATCGATGGCCTCTCAGAGCAGGAGAACCCTGGAGAAGCAGATGCGCCAGCTGGCCGTGATCCCGCCCATGCTGTA
CGACGCTGACCAGCAGCGCATCAAGTTCATCAACATGAACGGGCTTATGGCCGACCCCATGAAGGTGTACAAAGA
CCGCCAGGTTCATGAACATGTGGAGTGAGCAGGAGAAGGAGACCTTCCGGGAGAAGTTCATGCAGCATCCCAAGAA
CTTTGGCCTGATCGCATCATTCCTGGAGAGGAAGACAGTGGCTGAGTGCCTCTTACTACTGACTAAGAA
GAATGAGAACTATAAGAGCCTGGTGAGACGGAGCTATCGGCGCCGCGGCAAGAGCCAGCAGCAACAACAGCAGCA
GCAGCAGCAGCAGCAGCAGCAGCAGCAGCCATGCCCCGAGCAGCCAGGAGGAGAAAGATGAGAAGGAGAA
GGAAAAGGAGGCGGAGAAGGAGGAGAGAAGCCGGAGGTGGAGAACGACAAGGAAGACCTCCTCAAGGAGAAGAC
AGACGACACCTCAGGGGAGGACAACGACGAGAAGGAGGCTGTGGCCTCAAAGGCCGAAAACCTGCCAACAGCCA
GGGAAGACGCAAGGCCGATCACCCGCTCAATGGCTAATGAGGCCAACAGCGAGGAGGCCATCACCCCCAGCA
GAGCGCCGAGCTGGCCTCCATGGAGCTGAATGAGAGTTCGCTGGACAGAAGAAGAAATGGAAACAGCCAAAGAA
AGGTCTCCTGGAACACGGCCGCAACTGGTCGGCCATCGCCCGATGGTGGGCTCCAAGACTGTGTGCGAGTGTA
GAACTTCTACTTCAACTACAAGAAGAGGCAGAACCTCGATGAGATCTTGACAGCAGCACAAGCTGAAGATGGAGAA
GGAGAGGAACGCGCGGAGGAAGAAGAAGAAAGCGCCGGCGGCGGCCAGCGAGGAGGCTGCATTCCCGCCCGTGGT
GGAGGATGAGGAGATGGAGGCGTCGGGCGTGAGCGGAAATGAGGAGGAGATGGTGGAGGAGGCTGAAGCCTTACA
TGCTCTTGGAATGAGGTGCCAGAGGGGAATGCAGTGGCCAGCCACTGTCAACAACAGCTCAGACACCCGAGAG
CATCCCTCTCCTCACA CTGAGGCCGCCAAGGACACAGGGCAGAATGGGCCAAAGCCCCCAGCCACCCCTGGGCGC
CGACGGGCCACCCCCAGGCCACCCACCCACCCACCGAGGACATCCCGGGCCCCCATTGAGCCACCCCGGCCCTC
TGAAGCCACCGAGCCCCCTACGCCCCACCCAGCACCCCATCGCCCTCTGCACCTCCTCCTGTGGTCCCCAAGGA
GGAGAAGGAGGAGGAGACCGCAGCAGCGCCCCAGTGGAGGAGGGGGAGGAGCAGAAGCCCCCGCGCTGAGGA
GCTGGCAGTGGACACAGGGAAGGCCGAGGAGCCCGTCAAGAGCGAGTGCACGGAGGAAGCCGAGGAGGGGCGGC
CAAGGGCAAGGACGCGGAGGCCGCTGAGGCCACGGCCGAGGGGGCGCTCAAGGCAGAGAAGAAGGAGGGCGGGAG
CGGCAGGGCCACCACTGCCAAGAGCTCGGGCGCCCCCAGGACAGCGACTCCAGTGCTACCTGCAGTGCAGACGA
GGTGGATGAGGCCGAGGGCGGCGACAAGAACC GGCTGCTGTCCCCAAGGCCAGCCTCCTCACCCGACTGGCGA
CCCCGGGGCAATGCCTCACCCCAAGGCCACTGGACCTGAAGCAGCTGAAGCAGCGAGCGGCTGCCATCCCCC
CATCCAGGTACCAAAGTCCATGAGCCCCCGGGAGGACGCAGCTCCCAAGCCAGCTCCCCAGCCCCACC
GCCACCGCAAAACCTGCAGCCGGAGAGCGACGCCCCCTCAGCAGCCTGGCAGCAGCCCCCGGGCAAGAGCAGGAG
CCGGGACCCCCCGCGACAAGGAGGCCTTCGAGCCGAGGCCAGAAAGCTGCCTGGGGACCCCCCTTGCTGGAC
TTCCGGCCTGCCCTTCCCCGTGCCCCCCCCGTGAGGTGATCAAGGCCTCCCGCATGCCCCGACCCCTCAGCCTT
CTCCTACGCTCCACCTGGTCAACCACTGCCCCCTGGGCTCCATGACACTGCCCGGCCGCTCCTGCCGCGCCACC
CACCATCTCCAACCCGCTCCCCCTCATCTCCTTGCCAAGCACCCAGCGTCTCGAGAGGCAAAATAGGTGCCAT
CTCCCAAGGAATGTGGTCCAGCTCCACGTCCCGTACTCAGAGCATGCCAAGGCCCGGTGGGCCCTGTACCAT
GGGGCTGCCCCCTGCCCATGGACCCCAAAAAGCTGGCACCCCTTCAGCGGAGTGAAGCAGGAGCAGCTGTCCCCACG
GGGCCAGGCTGGGCCACCGGAGAGCCTGGGGGTGCCACAGCCAGGAGGCGTCCGTGCTGAGAGGGACAGCTCT

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FIGURE 698B

GGGCTCAGTTCCGGGCGGAAGCATCACCAAAGGCATTCCAGCACACGGGTGCCCTCGGACAGCGCCATCACATA
CCGCGGCTCCATACCCACGGCACGCCAGCTGACGTCCTGTACAAGGGCACCATCACCAGGATCATCGGCGAGGA
CAGCCCCAGTCGCTTGACCGCGGCCGGGAGGACAGCCTGCCCAAGGGCCACGTCATCTACGAAGGCAAGAAGGG
CCACGTCTTGCTATGAGGGTGGCATGTCTGTGACCCAGTGCTCCAAGGAGGACGGCAGAAGCAGCTCAGGACC
CCCCATGAGACGGCCGCCCCAAGCGCACCTATGACATGATGGAGGGCCGCGTGGGCAGAGCCATCTCCTCAGC
CAGCATCGAAGGTCTCATGGGCCGTGCCATCCCGCCGGAGCGACACAGCCCCACCACCTCAAAGAGCAGCACCA
CATCCGCGGGTCCATCACACAAGGGATCCCTCGGTCTACGTGGAGGCACAGGAGGACTACCTGCGTCGGGAGGC
CAAGCTCTAAAGCGGGAGGGACGCCTCCGCCCCACCGCCCTACGGGACCTGACCGAGGCCTACAAGACGCA
GGCCCTGGGCCCCCTGAAGCTGAAGCCGGCCCATGAGGGCCTGGTGGCCACGGTGAAGGAGGCGGGCCGCTCCAT
CCATGAGATCCCGCGCGAGGAGCTGCGGCACACGCCCGAGCTGCCCCGCGGCCGCTCAAGGAGGGCTC
CATCACGCAGGGCACCCCGCTCAAGTACGACACCGGCGCGTCCACCCTGGCTCCAAAAAGCACGACGTACGCTC
CCTCATCGGCAGCCCCGGCCGGACGTTCCACCCGTGCACCCGCTGGATGTGATGGCCGACGCCCGGGCACTGGA
ACGTGCTGTACGAGGAGAGCCTGAAGAGCCGGCCAGGGACCGCCAGCAGCTCGGGGGGCTCCATTGCGCGCGG
CGCCCCGGTCATTGTGCTGAGCTGGGTAAAGCCGCGGCAGAGCCCCCTGACCTATGAGGACCACGGGGCACCCCTT
TGCCGGCCACCTCCCACGAGGTTGCGCCGTGACCATGCGGGAGCCACGCGCGCCTGCAGGAGGGCAGCCTTTC
GTCCAGCAAGGCATCCCAGGACCGAAAGCTGACGTGACGCGCTCGTGAGATCGCCAAAGTCCCCGCACAGCACCGT
GCCCCGAGCACACCCACACCCCATCTCGCCCTATGAGCACCTGCTTCGGGGCGTGAGTGGCGTGACCTGTATCG
CAGCCACATCCCCCTGGCCTTCGACCCACCTCCATACCCCGCGGCATCCCTCTGGACGCAGCCGCTGCCTACTA
CCTGCCCCGACACCTGGCCCCCAACCCACCTACCCGCACCTGTACCCACCCTACCTCATCCGCGGCTACCCCGA
CACGGCGGCGCTGGAGAACCGGCAGACCATCATCAATGACTACATCACCTCGCAGCAGATGCACCACAACACGGC
CACCGCCATGGCCAGCGAGCTGATATGCTGAGGGCCCTCTCGCCCCGCSAGTCTCTGCTGGCACTCAACTACGC
TGCGGGTCCCCGAGGCATCATCGACCTGTCCCAAGTGCCACACCTGCCTGTGCTCGTGCCCCGACACCAGGCAC
CCCAGCCACCGCCATGGACCGCCTTGCCCTACCTCCCCACCGCGCCCCAGCCCTTCAGCAGCCGCCACAGCAGCTC
CCACTCTCCCCAGGAGGTCCAACACACTTGACAAAACCAACCACACGTCCTCGTCCGAGCGGGAGCGAGACCG
GGATCGAGAGCGGGACCGGGATCGGGAGCGGGAAAAGTCCATCCTCACGTCCACCACGACGGTGGAGCACGCACC
CATCTGGAGACCTGGTACAGAGCAGAGCAGCGGCAGCAGCGGCAGCAGCGGCGGGGGTGGGGGCAGCAGACCGG
CCCCGCTCCCACTCCCATGCCCACCAGCACTCGCCCATCTCCCTCGGACCCAGGATGCCCTCCAGCAGAGACC
CAGTGTGCTTACAACACAGGCATGAAGGGTATCATCACCGCTGTGGAGCCAGCAAGCCACGGTCTCTGAGGTC
CACCTCCACCTCTCACCCGTTGCGCCAGCTGCCACATTCACACCTGCCACCCACTGCCCACTGGGCGGCACCCCT
CGATGGGGTCTACCTACCTCATGGAGCCCGTCTTGCTGCCCAAGGAGGCCCCCGGGTTCGCCCCGCCAGAGCG
GCCCCGAGCAGACACCGCCATGCCTTCTCGCCAAGCCCCAGCCCCGCTCCGGGCTGGAGCCCGCCTCTCTCCC
CAGCAAGGGCTCGGAGCCCCGGCCCCCTAGTGCTCCTGTCTCTGGCCACGCCACCATCGCCCCGACCCCTGCGAA
GAACCTCGCACCTCACCAGCCAGCCCGGACCCGCGGCGCCACCTGCCCTCGGCCTCGGACCCGACCCGGGAAAA
GACTCAAAGTAAACCTTTTTCCATCCAGGAACTGGAAGTCCGTTCTCTGGGTACCACGGCAGCAGCTACAGCCC
CGAAGGGGTGGAGCCCGTCAGCCCTGTGAGCTCACCCAGTCTGACCCACGACAAGGGGCTCCCCAAGCACCTGGA
AGAGCTCGACAAGAGCCACCTGGAGGGGGAGCTGCGGCCAAGCAGCCAGGCCCCGTGAAGCTTGGCGGGGAGGC
CGCCACCTCCACACCTGCGGCCGTGCCTGAGAGCCAGCCCTCGTCCAGCCCGCTGCTCCAGACCGCCCCAGG
GGTCAAAGGTACACAGCGGGTGGTACCCCTGGCCCAGCACATCAGTGAGGTATCACACAGGACTACACCCGGCA
CCACCCACAGCAGCTCAGCGCACCCCTGCCCCGCCCCCTCTACTCCTTCCCTGGGGCCAGCTGCCCCGTCTGGA
CCTCCGCCGCCACCCAGTGACCTCTACCTCCCGCCCCCGGACCATGGTGCCCCGGCCCCGTGGCTCCCCCCACAG
CGAAGGGGGCAAGAGGTCTCCAGAGCCAAACAAGACGTGCGTCTTGGGTGGTGGTGAGGACGGTATTGAACCTGT
GTCCCCACCGGAGGGCATGACGGAGCCAGGGCACTCCCGGAGTGCTGTGTACCCGCTGCTGTACCCGGATGGGGA
ACAGACGGAGCCCAGCAGGATGGGCTCCAAGTCTCCAGGCAACACCAGCCAGCCGCCAGCCTTCTTCAGCAAGCT
GACCGAGAGCAACTCCGCCATGGTCAAGTCCAAGAAGCAAGAGATCAACAAGAAGCTGAACACCCACAACCGGAA
TGAGCCTGAATACAATATCAGCCAGCCTGGGACGGAGATCTTCAATATGCCCGCCATCACCGGAACAGGCCTTAT
GACCTATAGAAGCCAGGCGGTGCAGGAACATGCCAGCACCACATGGGGCTGGAGGCCATAATTAGAAAGGCACT
CATGGGTAAATATGACCAAGTGGGAAGAGTCCCCGCCGCTCAGCGCCAATGCTTTTAACCTCTGAATGCCAGTGC
CAGCCTGCCCCGTGCTATGCCCATACCGCTGCTGACGGACGGAGTGACCACACACTCACCTCGCCAGGTGGCGG

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FIGURE 698C

CGGGAAGGCCAAGGTCTCTGGCAGACCCAGCAGCCGAAAAGCCAAGTCCCCGGCCCCGGGCCTGGCATCTGGGGA
CCGGCCACCCTCTGTCTCCTCAGTGCACTCGGAGGGAGACTGCAACCGCCGGACGCCGCTCACCAACCGCGTGTG
GGAGGACAGGCCCTCGTCCGCAGGTTCCACGCCATTCCCCCTACAACCCCCCTGATCATGCGGCTGCAGGCGGGTGT
CATGGCTTCCCCACCCCCACCGGGCCTCCCCGCGGGCAGCGGGCCCCCTCGCTGGCCCCCACCACGCCTGGGACGA
GGAGCCCCAAGCCACTGCTCTGCTCGCAGTACGAGACACTCTCCGACAGCGAGTGACTCAGAACAGGGCGGGGGG
GGCGGGCGGTGTCAGGTCCAGCGAGCCACAGGAACGGCCCTGCAGGAGCGGGGCGGCTGCCGACTCCCCAACC
AAGGAAGGAGCCCCCTGAGTCCGCCTGCGCCTCCATCCATCTGTCCGTCCAGAGCCGGCATCCTTGCCTGTCTAAA
GCCTTAATAAGACTCCCGCCCCGGGCTGGCCCTGTGCAGACCTTACTCAGGGGATGTTTACCTGGTGCTCGGGA
AGGGAGGGGAAGGGGCCGGGGAGGGGGCACGGCAGGCGTGTGGCAGCCACACACAGGCGGCCAGGGCGGCCAGGG
ACCCAAAGCAGGATGACCACGCACCTCCACGCCACTGCCTCCCCGAATGCATTTGGAACCAAAGTCTAAACTGA
GCTCGCAGCCCCCGCGCCCTCCCTCCGCCTCCCATCCCGCTTAGCGCTCTGGACAGATGGACGCAGGCCCTGTCC
AGCCCCCAGTGCGCTCGTTCCGGTCCCCACAGACTGCCCCAGCCAACGAGATTGCTGGAACCAAGTCAGGCCAG
GTGGGCGGACAAAAGGGCCAGGTGCGGCCTGGGGGGAACGGATGCTCCGAGGACTGGACTGTTTTTTTACACAT
CGTTGCCGCAGCGGTGGGAAGGAAAGGCAGATGTAAATGATGTGTTGGTTTACAGGGTATATTTTTTGATACCTTC
AATGAATTAATTCAGATGTTTTACGCAAGGAAGGACTTACCCAGTATTACTGCTGCTGTGCTTTTGATCTCTGCT
TACCGTTCAAGAGGCGTGTGCAGGCCGACAGTCGGTGACCCCATCACTCGCAGGACCAAGGGGGCGGGGACTGCT
CGTCACGCCCCGCTGTGTCTCCTCCCTCCCTCCCTTCCTTGGGCAGAATGAATTCGATGCGTATTCTGTGGCCGCCA
TTTGCGCAGGGTGGTGGTATTCTGTCATTTACACACGTCGTTCTAATTAAAAAGCGAATTATACTCCAAAAAAA
AAAAAAAAA

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FIGURE 699

MSGSTQLVAQTW RATEPRYPHSLSYPVQIARTHTDVGLLEYQHHSRDYASHLSPGSIIQPQRRRPSLLSEFQPG
NERSQELHLRPESHSYLPELGKSEMEFIESKRPRLELLPDPLLRPSPLLATGQPAGEDLT KDRLTGKLEPVSP
PSPHPTDPELELVPPRLSKEELIQNMMDRVDREITMVEQQISKLKKKQQQLEEEAAKPEPEKPVSPPIESKHRS
LVQIIYDENRKKAEAAHRILEGLGPQVELPLYNQPSDTRQYHENIKINQAMRKKLILYFKRRNHARKQWKQKFCQ
RYDQLMEALEKKVERIENNPRRRAKESKVVREYYEKQFPEIRKQRELQERMQSRVQGRGSGLSMSAARSEHEVSEI
IDGLSEQENLEKQMRQLAVIPPLYDADQQRIKF INMNGLMADPMKVYKDRQVMNMWSEQEKETFREKFMQHPKN
FGLIASFLERKTVAECLVLYYYLTKKNNYKSLVRRSYRRRGKSQQQQQQQQQQQQQQQQQPMPRSSQEEKDEKEK
EKEAEKEEEKPEVENDKEDLLKEKTD DTSGEDNDEKEAVASKGRKTANSQGRRKGRITRSMANEANSEEAITPQQ
SAELASMELNESSRWTEEMETAKKGLLEHGRNWSAIARMVGSKTVSQCKNFYFNYKKRQNLDEILQQHKLKMEK
ERNARRKKKKAPAAASEEAFFPVVEDEEMEASGVSGNEEMVEEAEALHASGNEVPRGECSGPATVNNSSD TES
IPSPHTEAAKDTGONGPKPPATLGADGPPPGPPTPPRRTSRAP IEPTPASEATGAPTPPPAPPSPSAPPPVVPKE
EKEETAAPPEEGEEQKPPAAEELAVDTGKAEEPVKSECTEEAEEGPAKGKDAEAAEATAEGALKAEKKEGGS
GRATTAKSSGAPQSDSSATCSADEVDEAEAGGDKNRLLSRPSLLTPTGDPRANASPKPLDLKQLKQRAAAIPP
IQVTKVHEPPREDAAPT KPAAPPAPPPPPQNLQFESDAPQQPGSSPRGKSRSPAPPADKEAFAAEAQKLP GDPPCWT
SGLPFPVPPPREVIKASPHAPDPSAFSYAPP GHPLPLGLHDTARPVLPRPPTISNPPPLISSAKHPSVLERQIGAI
SQGMSVQLHVPYSEHAKAPVGPVTMGLPLPMDPKKLAPFSGVKQEQLSPRGQAGPPESLGVPTAQEASVLRGTAL
GSPVGGSI TKGIPSTRVPSDSAITYRGSITHGTPADVLYKGTITRIIGEDSP SRLDRGREDSLPKGHVIYEGKKG
HVLSEYEGGMSVTQCSKEDGRSSSGPPHETAAPKRTYDMMEGRVGRAISSASIEGLMGRAIPPERHSPHHLKEQHH
IRGSITQGIPRSYVEAQEDYLRREAKLLKREGTPPPPPPSRDLTEAYKTQALGPLKLKPAHEGLVATVKEAGRSI
HEIPREELRHTPELPLAPRPLKEGSITQGTPLKYDTGASTTGSKKHDVRS LIGSPGRTPFPVHPLDVMADARALE
RACYEESLSRPGTASSSGSIARGAPVIVPELGKPRQSPLTYEDHGAPFAGHLPRGSPVTMREPTPRLQEGSLS
SSKASQDRKLTSTPREIAKSPHSTVPEHHHPHISPYEHL LRGVSGVDLYRSHIPLAFDPTSIPRGIPLDAAAAYY
LPRHLAPNPTYPHLYPPYLIRGYPDTAALENRQTIINDYITSQQMHNTATAMAQRADMLRGLSPRESSLALNYA
AGPRGIIDLSQVPHLPVLVPPTPGTPATAMDRLAYLPTAPQPFSSRHSSSPLSPGGPHTLTKPTTTSSSERERDR
DRERDRDREREKSILTSTTTVEHAPIWRPGTEQSSGSSGSSGGGGSSSRPASHSHAHQHSPISPRTDALQQRP
SVLHNTGMKGIIITAVEPSKPTVLRSTSTSSPVRPAATFPPATHCPLGGTLDGVYPTLMEPVLLPKEAPRVARPER
PRADTGHAFLAKPPARSGLEPASSPSKGSEPRPLVPPVSGHATIARTPAK

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FIGURE 700

ATGGCAGAGCAGTTCGGACGAGGCCGTGAAGTACTACACCCTAGAGGAGATTTCAGAAGCACAAACCACAGCAAGAGC
ACCTGGCTGATCCTGCACCACAAGGTGTACGATTTGACCAAATTTCTGGAAGAGCATCCTGGTGGGGAAGAAGTT
TTAAGGGAACAAGCTGGAGGTGACGCTACTGAGAACTTTGAGGATGTCGGGCACTCTACAGATGCCAGGGAAATG
TCCAAACATTTCATCATTGGGGAGCTCCATCCAGATGACAGACCAAAGTTAAACAAGCCTCCAGAACCTTAAAGG
CGGTGTTTTCAAGGAACTCTTATCACTACTATTGATTCTAGTTCCAGTTGGTGGACCAACTGGGTGATCCCTGCC
ATCTCTGCAGTGGCCGTCGCCCTTGATGTATCGCCTATACATGGCAGAGGACTGAACACCTCCTCAGAAGTCAGCG
CAGGAAGAGCCTGCTTTGGACACGGGAGAAAAGAAGCCATTGCTAACTACTTCAACTGACAGAAACCTTCACTTG
AAAACAATGATTTTAAATATATCTCTTTCTTTTCTTCCGACATTAGAAACAAAACAAAAGAAGTGTCTTTCTG
CGCTCAAATTTTTCGAGTGTGCCTTTTATTTCATCTACTTTATTTTGATGTTTCCTTAATGTGTAATTTACTTAT
TATAAGCATGATCTTTTAAAAATATATTTGGCTTTTAAAGT

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FIGURE 701

MAEQSDEAVKYITLEEIQKHNSKSTWLILHHKVYDLTKFLEEHPGGEEVLREQAGGDATENFEDVGHSTDAREM
SKTFIIGELHPDDRPKLNKPPEP

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FIGURE 702

AGCCTGTGACTTTCCTCCCTGGACAAAGGCATC**ATG**AGTTGTCAGATCTCTTGCAAATCTCGAGGAAGAGGAGGA
GGTGGAGGAGGATTCCGGGGCTTCAGCAGCGGCTCAGCTGTGGTGTCTGGTGGAGCCGGAGATCAACTTCCAGC
TTCTCCTGCTTGAGCCGCCATGGTGGTGGTGGCGGGGGCTTCGGTGGAGGCGGCTTTGGCAGTCGGAGTCTTGTT
GGCCTTGGAGGGACCAAGAGCATCTCCATTAGTGTGGCTGGAGGAGGTGGTGGCTTTGGCGCCGCTGGTGGATTT
GGTGGCAGAGGAGGTGGTTTTTGGAGGCGGCAGCGGCTTTGGAGGCGGCAGCGGCTTTGGAGGTGGCAGCGGCTTC
AGTGGTGGTGGTTTTCGGTGGAGGCGGCTTTGGTGGAGGCCGCTTTGGAGGTTTTGGGGGCCCTGGTGGTGTGGGA
GGTTTAGGGGGTCCCTGGTGGCTTTGGGCCTGGAGGATAACCTGGTGGCATCCACGAAGTCTCTGTCAACCAGAGC
CTCCTGCAGCCTCTCAACGTGAAAGTTGACCCAGAGATCCAGAATGTGAAGGCCCAAGAGCGTGAGCAGATCAAA
ACTCTCAACAACAAATTTGCCTCCTTCATTGACAAGGTGCGGTTCTTGGAGCAGCAGAACCAGGTGTTACAGACC
AAATGGGAGCTGCTACAACAATGAATGTTGGCACCCGCCCCATCAACCTGGAGCCCATCTTCCAGGGGTATATC
GACAGCCTCAAGAGATATCTGGATGGGCTCACTGCAGAAAGAACATCACAGAATTCAGAGCTGAATAACATGCAG
GATCTTGTGGAGGATTATAAGAAGAAGTATGAGGATGAAATCAATAAGCGCACAGCTGCTGAGAATGATTTTGTG
ACGCTTAAAAAGGACGTGGACAATGCCTACATGATAAAGGTGGAGTTGCAGTCCAAGGTGGACCTGCTGAACCAAG
GAAATTGAGTTTCTGAAAGTTCTCTATGATGCGGAGATATCCCAGATACATCAGAGTGTCACTGACACCAACGTC
ATCCTCTCCATGGACAACAGCCGCAACCTGGACTTGGATAGCATCATCGCCGAGGTCAAGGCCAGTATGAGGAG
ATCGCCAGAGGAGCAAGGAAGAAGCGGAGGCCCTGTACCACAGCAAGTATGAGGAGCTCCAGGTGACTGTCGGG
AGACATGGAGACAGCCTGAAAGAGATCAAGATAGAGATCAGCGAGCTGAACCGCGTGATCCAGAGGCTGCAGGGG
GAGATCGCACATGTGAAGAAGCAGTGTAAGAATGTGCAAGATGCCATCGCAGATGCCGAGCAGCGTGGGGAGCAT
GCCCTCAAGGATGCCAGGAACAAGTTGAATGACCTGGAGGAGGCCCTGCAGCAGGCCAAGGAGGACTTGGCGCGG
CTGCTGCGTGACTACCAGGAGCTGATGAACGTGAAGCTGGCCCTAGATGTGGAGATCGCCACCTACCGCAAACCTG
CTGGAGGGCGAGGAGTGCAGGATGTCTGGAGACCTCAGCAGCAATGTGACTGTGTCTGTGACAAGCAGCACCATT
TCATCAAATGTGGCATCCAAGGCTGCCTTTGGAGGTTCTGGAGGTAGAGGGTCCAGTTCCGGAGGAGGATACAGC
TCTGGAAGCAGCAGTTATGGCTCTGGAGGCCGACAGTCTGGCTCCAGAGGCGGTAGTGGAGGAGGAGGTTCTATC
TCTGGAGGAGGATATGGCTCTGGCGGTGGTTCTGGAGGAAGATACGGATCTGGTGGTGGCTCTAAGGGAGGGTCC
ATCTCTGGAGGAGGATATGGCTCTGGAGGTGGAAAACACAGCTCTGGAGGTGGCTCTAGAGGAGGCTCCAGCTCT
GGAGGAGGATATGGCTCTGGAGGTGGGGGTCTAGCTCTGTAAAGGGTAGCTCAGGTGAAGCTTTTGGTTCCAGC
GTGACCTTCTCTTTTAGA**TAA**AGATGAGCCCCCACCACCACCGACTCTCCAACCCAGACTCTCCCACTCCAGAA
TGTAAGAAGCCTGTCTCTGTACCTCTAACTGGCAGCAAGTTAAATTTTTGTCAATTTATCTCTGATGGCACTTTGAG
GGAAAAGAATGTCCACATACAGTTTTTTGAAAGATCTTCTCTCAAACCAAGTTAGTTAGAGCCAGTGACGCCTCTG
TGTTCTGGGGCGGAATCTGTGCTGTCTAGGTTTGTGCTTCTAGCCATGCCATTCCCGCCCCCACCATGCCTCTT
TGCATTGCCATTTTCCAGATGTGTATTCTGTTGAGGACCCAGGCCCATCCAGGGATTTTCATCTCTAAGCCTGGC
AGTGCTGGGGGGAATGTGTTTCTGTGTATATAGCTCCTCTTGTCCACTCTGCTTTCGGAAGTGCTGTGGTCTGG
GGGTCTTCATAATAAACCTCATTGCA

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FIGURE 703

MSCQISCKSRGRGGGGGGFRGFSSGS AVVSGGSRRSTSSFSCLSRHGGGGGGFGGGGFGSRSIVGLGGTKSISIS
VAGGGGGFGAAGGFGGRGGGFGGGSGFGGGSGFGGGSGFSGGGFGGGGFGGGRFGGFGGPGGVGGLGGPGGFPG
GYPGGIHEVSVNQSLLOPLNVKVDPEIQNVKAQEREQIKTLNNKFASFIDKVRFLEQQNQVLQTKWELLQQMNVG
TRPINLEPIFQGYIDSLKRYLDGLTAERTSQNSELNNMQDLVEDYKKKYEDEINKRTAAENDFVTLKKDVDNAYM
IKVELQSKVDLLNQEIEFLKVLYDAEISQIHQSVTDTNVILSMDNSRNLDLDSIIAEVKAQYEEIAQRSKEEAEA
LYHSKYEELQVTVGRHGDSLKEIKIEISELNRVIQRLQGEIAHVKKQCKNVQDAIADAEQORGEHALKDARNKLND
LEEALQQAKEDLARLLRDYQELMNVKLALDVEIATYRKLLLEGEECRMSSGDLSSNVTVSVTSSTISSNVASKAAGF
GSGGRGSSSGGYSSGSSSYGSGGRQSGSRGGSGGGGSISSGGYGSGGGSGGRYSGGGGSKGGSISGGGYGSGGG
KHSSGGGSRGGSSSGGYGSGGGGSSSVKGSSGEAFGSSVTFSTR

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FIGURE 704

CCCAGATAAAAGGTAGGGGAGGAGGAGAGAGAGAAGGAAGAGTCTAGGCTGAGCAACATGAAGGGGGCCCCAA
CCTTCTGCAGCCTCCTGCTGCTGTCATTGCTCCTGAGCCCAGACCCTACAGCAGCATTCTACTGCCACCCAGCA
CTGCCTGCTGTACTCAGCTCTACCGAAAGCCACTCTCAGACAAGCTACTGAGGAAGGTCATCCAGGTGGAAGTGC
AGGAGGCTGACGGGGACTGTCACCTCCAGGCTTTCGTGCTTCACCTGGCTCAACGCAGCATCTGCATCCACCCCC
AGAACCCCGAGCCTGTCACAGTGTTTGAGCACCAAGAGAGAAAGCTCCATGGGACTCTGCCCAAGCTGAATTTTG
GGATGCTAAGGAAAATGGGCTTGAAGCCCCCAATAGCCAAATAATAAAGCAGCATTGGATAATAATTCTGAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 705

MKGPPTFCLLLLSLLLSPDPTAAFLPPSTACCTQLYRKPLSDKLLRKVIQVELQEADGDCHLQAFVLHLAQRS
ICIHQNP SLSQWFEHQERKLHGTLPKLNFGMLRKMG

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FIGURE 706A

GCGGCGGTGGCGGCGACCGTCAGTTTTTCGCTGAGGAGAAACACGAAACGGACCCCTTTGGCTCTCCCCCTTCCCCT
TCCCCGTCTGAACCCCTCTCCTGGTCACCGAGAATCAGTCCCCGTGGAGTTCCCCCTCCACCTCGCCATCGTTTT
CCTCGGTCTCTGCGCCAGTGGAAGTCACTACCCTCGAGGAGGAGGCAGCGGCAGCCGCCCTCGCGTCGCGGCCCC
CGGTTCCGGTGCCCGCGGTCCCGGAGAGGAGGTGCCGCCGCCACCGCCGCTCCCCCCTCCCGCTGCCCTCGGGCC
GGGCTGGGTGAGCTGCGATGCCCCCTCGGACTTCATCTCATTGCTCAGCGCGGACCTAGACCTGGAATCGCCCAAG
TCCCTCTACTCGCGAGAATCTGTCTATGATCTTCTCCCAAAGGAGTTACAGTTACCTCCATCTAGAGAAACATCT
GTAGCATCAATGAGTCAGACAAGCGGTGGTGAGGCAGGCTCGCCTCCTCCAGCTGTTGTTGCTGCTGATGCTTCT
TCAGCTCCCTCCTCTTCCCTCCATGGGCGGTGCTTGACGCTCCTTTACCACCTCTTCCAGCCCTACCATTATTCT
ACCTCAGTCACCGACAGCAAGGCTATGCAAGTGGAGAGCTGCTCCTCAGCCGTGGGGGTAAAGTAACAGAGGGGTA
AGTGAAGAGCAGTTAACCAGTAACACAGTTCAGCAGCATCCATCAACACCGAAGAGGCACACAGTCTTGATCATC
TCACCACCACCTGAGGACTTGCTGGATAACAGTCGGATGTCCTGCCAGGATGAGGGGTGTGGATTGGAATCTGAG
CAGAGCTGCAGTATGTGGATGGAGGATTCCTCCCTCCAACTTCAGTAACATGAGCACCAGTTTCTACAATGATAAC
ACTGAGGTACCTCGTAAATCACGAAACGAAATCCAAAGCAGAGGCCGGGGGTCAAACGACGAGATTGTGAAGAA
TCTAATATGGATATATTTGATGCCGACAGTGCCAAAGCACCTCACTATGTGCTTTCTCAGCTTACCACGGACAAC
AAAGGCAACTCAAAGCGGGAAATGGAACATTGGAACCCAAAGGAAGTGGAGTAAAGAAGAGCCCTATGTTG
TGTGGACAATATCCTGTTAAAAGTGAGGGAAAGGAGCTGAAGATAGTTGTACAACCTGAGACACAGCACCAGCT
CGGTACCTGACTGAGGGCAGCCGTGGCTCAGTGAAAGATAGAACACAGCAAGGCTTTTCTACAGTAAAGCTGGAA
GGCCATAATGAACCTGTAGTGTGCAAGTGTGTTGTTGGGCAACGACTCTGGACGAGTGAAACCACATGGATTTAT
CAGGCCTGCAGAGTAACTGGACGAAATACAACCTCCTTGCAAAGAGTGGACATTGAAGGCACTACTGTTATAGAA
GTCGGCCTTGATCCTAGCAACAACATGACACTGGCGGTGGACTGCGTAGGGATATTGAAATTGAGGAATGCTGAT
GTCGAAGCCAGAATAGGAATTGCTGGTTCCAAGAAGAAAAGCACTCGTGCCAGATTGGTTTTTTCAGTTAATATC
ATGAGGAAAGATGGCTCCACTTTGACACTGCAAAACACCCCTCTTCTCCAATTTTGTGTACTCAGCCAGCAGGAGTG
CCAGAAATCTTAAAGAAAAGCTTGATAGCTGTTTCAAGTGAAGGAGAAGAAGAGTGTGTTTAAATCGGCAAGAAC
TTTCTGAAAGGAACTAAAGTTATTTTCCAAGAAAATGTTTCTGATGAAAACCTTTGGAAGTCAGAAGCTGAAATT
GATATGGAATATTTTATCAGAAATCATCTTATTGTGAAGGTTCCCTCCCTATCATGACCAACATATAACTTTGCCT
GTGTCACTGGGAATATATGTAGTGACAAATGCTGGAAGATCTCATGATGTTCAACCATTCACTTACACTCCAGAC
CCAGCAGCAGCTGGTGCTTTGAATGTAAATGTGAAGAAGGAAATATCTAGTCCAGCAAGACCTTGCTCTTTTGAA
GAGGCCATGAAAGCAATGAAACTACTGGATGTAATTTAGATAAGGTAAATATTATCCCTAATGCCCTGATGACT
CCACTCATACCAAGCAGTATGATTAAGAGTGAAGATGTTACTCCAATGGAAGTAACAGCAGAAAAAAGATCTTCC
ACTATTTTTTAAGACTACAAAGTCTGTTGGATCAACTCAGCAACATTAGAAAACATCTCAAACATAGCAGGAAAT
GGCTCTTTTTTATCACCATCATCTTCCACCTACCTTCTGAAAATGAAAAACAGCAGCAGATTACGCCCAAGGCA
TACAACCCAGAGACCCTGACAACCTATTCAAACCCAGGACATCTCACAGCCTGGTACTTTTCCAGCAGTTTCTGCT
TCTAGTCAGCTGCCCAACAGCGATGCACTATTGCAGCAGGCTACACAGTTTCAGACAAGAGAACTCAGTCTAGA
GAGATATTACAGTCAGATGGTACAGTGGTTAATTTGTCACAACTGACTGAGGCATCACAACAACAGCAGCAGTCA
CCACTACAAGAACAAGCACAGACTTTACAGCAGCAGATTTTATCAAATATTTTTCCATCACCAAATAGTGTGAGT
CAGCTTCAGAATACTATTACAGCAGCTGCAAGCAGGGAGTTTACAGGCAGTACTGCTAGTGGCAGCAGTGGAAGT
GTTGACTTGGTCCAACAAGTTTTAGAGGCACAGCAGCAGTTATCTTCAGTTTTATTTTCTGCTCCAGATGGTAAT
GAGAATGTTCAAGAGCAGCTTAGTGAGATATTTTTCAACAAGTCAGTCAAATTCAGAGTGGTGTAAGCCCTGGA
ATGTTTTTCTCAACAGAGCCCAACAGTCCATACAGACCAGATAATTTATTACCTGGAAGAGCTGAAAGTGTTTAT
CCACAGTCTGAAAACACGTTATCTAATCAACAGCAGCAGCAGCAGCAACAGCAAGTGATGGAATCTTCAGCC
GCAATGGTGATGGAGATGCAACAGAGTATCTGCCAGGCAGCTGCCAGATTTCAGTCAGAGTTATTCCCTTCAACT
GCTTCAGCAAATGGAACCTTCAGCAATCGCCAGTTTACCAGCAGACTTCTCATATGATGAGTGCATTGTCTACC
AATGAGGATATGCAAATGCAGTGTGAATTGTTTTCTTCTCCTCCTGCAGTTTCTGGAAATGAACTTCTACAAC
ACCACACAGCAGGTTGCAACCCCTGGCACTACCATGTTTCAGACATCAAGTTTCAGGAGATGGAGAAGAACTGGA
ACACAAGCAAAACAGATTGAGAACAGTGTCTTTCAGACCATGGTCCAAATGCAACATAGTGGGGACAATCAACCT
CAAGTTAACCTTTTTTATCCACAAAAAGTATGATGAGTGTTTTCAGAAATAGTGGTACCCAACAACAAGGTAATGGT
TTATTCCAGCAAGGGAATGAGATGATGTCACTTCAATCTGGAAATTTTTTGCAGCAGTCTTCTCATTACAGGCC
CACTTTTTTATCCTCAAATCCTATTGCCGATGCTCAGAACCTTCCAGGAACTCAAGTTCTCTCTTTTAT

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FIGURE 706B

AGTCCAAATCCTATTGTCCACAGTCAGACTTCTACAACCTCCTCTGAACAAATGCAGCCTCCAATGTTTCACTCT
CAAAGTACCATTGCTGTGTTACAGGGCTCTTCAGTTCCTCAAGACCAGCAGTCAACCAACATATTTCTTTCCCAG
AGTCCCATGAATAATCTTCAGACTAACACAGTAGCCCAAGAAGCATTTTTTGCAGCACCAGAACTCAATTTCTCCA
CTTCAGTCAACATCAAACAGTGAACAACAAGCTGCTTTCCAACAGCAAGCTCCAATATCACACATCCAGACTCCT
ATGCTTTCCCAAGAACAGGCACAACCCCGCAGCAGGGTTTATTTTCAGCCTCAGGTGGCCCTGGGCTCCCTTCCA
CCTAATCCAATGCCTCAAAGCCAACAAGGAACCATGTTCCAGTCACAGCACTCAATAGTTGCCATGCAGAGTAAC
TCTCCATCCCAGGAACAGCAGCAGCAGCAACAGCAGCAGCAACAGCAGCAGCAACAACAACAGAGCATTTTA
TTCAGTAATCAGAATACCATGGCTACAATGGCGTCTCCAAAGCAACCACCACCAACATGATATTCAACCCAAAT
CAAAATCCAATGGCTAATCAGGAGCAACAGAACCAGTCAATTTTTACCAACAAAGTAACATGGCCCCAATGAAT
CAAGAGCAACAGCCCATGCAATTTTCAGAGTCAGTCCACAGTTTCCTCACTTCAGAACCCAGGTCTTACCCAGTCG
GAATCATCACAGACCCCCCTTGTTCCATAGCTCTCCTCAGATTTCAGTTGGTACAAGGGTCACCTAGTTCTCAAGAG
CAGCAAGTAACTCTCTTCTTATCTCCAGCATCCATGTCTGCCTTGCCAGACCAGTATAAATCAACAAGATATGCAA
CAGTCTCCTCTTTATTCCCCTCAGAACAACATGCCTGGAATTCAAGGAGCCACATCTTCGCCTCAACCACAGGCT
ACTTTATTTTACAACACAGCAGGAGGCACAATGAACCAACTGCAGAATTCTCCTGGCTCATCTCAGCAGACATCA
GGAATGTTCTTATTTGGCATTCAAATAACTGTAGTCAGCTTTTAACTCTGGACCAGCTACATTGCCTGATCAG
TTGATGGCCATAAGTCAGCCAGGCCAACCAAAAACGAGGGCCAGCCACCTGTGACAACACTTCTTTCTCAGCAA
ATGCCAGAGAATTCTCCACTGGCATCCTCTATAAACACCAACCAGAACATCGAAAAGATTGATTTGCTTGTTC
TTGCAAAACCAAGGGAACAACCTTGACTGGCTCCTTTTAACTGGATATAAATTCACGAAGAAAATCCTGATTCCA
AGATGTCCTGAGATCTTGTGGTTCCATGAGAATTATTACTTTAAAAACAAAACAAAATATAAAAACTGTGTTTG
AGTAACTGATAGATTTTACTCTGACTGCAAAAGAGCACACCTATGCTGCTTGTGTCAGTAACTAACCAATG
TTAACATCTTCATATTTTATATTCTTAATAACAGTGATGACTGAGAATCTATTTGAGTTTCCAGCTGGCAGAATT
AATTGTTATTATTTTCTAGGCGCAATTTCTTAAACGTACAGTTTAAATTCAAGGCTGGACCACTCAGTTATTA
TTGCTATTAGAAAATAATATATCATGTTTACTTTTGTCTTTCATTATTTTCTTTCTGCATTGTTTTAGTCAAGT
AATGGCTTTTGAAAAAGTAAAGTTCAATAATAACTAAGGCTGTGATTTTTTTCAATATAAAAGGCACAGCTGTTG
GCCAAAGTGAAGGAATCTTTTTTTCAGTTTTATTGGAGAACTGAAGGGTAACATTCTAACAAGTAACTGTATGT
GCAGATAAAAGTACTCTTGATTTAACACAAAGGCAGATGATACACTTATAAACTGGGAACAGCTGGAATGCTTC
TTGATTTTATTTTTTTCAGAGAGTTGTTAGTTCTCTGGGTTTCTACTAAGGGGTTTAGCCATAACTGTGCATAGAA
AAATAATTATCTGTAAAAAATGAAGGGGATAATATATGATAAATTATGTTCTGATATCCTCCTACAGTAGTTTAA
ATTGACAGAAAAATTTGAATGTTTTCTTCTTAACCCAGTCTTAGGCTGGTATTCCTTTTTATATATATCTATAT
TACTTTTCACCTCTTTTTCACTTTACTTTAGAGAATTAATATACTACTGGCTTCATGACCTGTAGCATCTT
TGGCCACTTTAATCTAGGGTGACCTAGCAATCCTGCAGCACAGGGCAGAGAGTACTGTCTTAGGAATTATTAGGA
GTTGATTCCTGAGAAACAACATTTTTCCCATGAACGGTGCTGTTCTGAAGTCTTCAAATTTTTCCCTCTAAT
AGGAAACAGTATAAATTTT

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FIGURE 707

MP SDFISLLSADLDLES PKSLYSRESVYDLLPKELQLPPSRET SVASMSQTS GGEAGSPPPAVVAA DASSAPSSS
SMGGACSSFTTSSSPTIYSTSVTDSKAMQVESCSSAVGVSNR GVSSEKQLTSNTVQQHPSTPKRHTVLYISPPPED
LLDNSRMSCQDEGCGLESEQSCSMWMEDSPSNFSNMSTSSYNDNTEVPRKSRKRNP KQRP GVKRRDCEESNMDIF
DADSAKAPHYVLSQLTTDNKGNSKAGNGTLENQKGTGVKKSPMLCGQYPVKSEGKELKIVVQPETQHRARYLTEG
SRGSVKDR TQQGFPTVKLEGHNEPVVLQV FVGND SGRVKPHGFYQACRV TGRNTTPCKEVDIEGTTVIEVGLDPS
NNMTLAVDCVGILKLRNADVEARIGIAGSKKKSTRARLVFRVNIMRKDGSTLTLQTPSSPILCTQPAGVPEILKK
SLHSCSVKGEEEVFLIGKNFLKGTKVIFQENVSDENSWKSEAEIDMELFHQNH LIVKVPPYHDQHITLPVSVGIY
VVTNAGRSHDVQPFTYTPDPAAGALNVNVKKEISSPARPCSFEEAMKAMKTTGCNLDKVNIIIPNALMTPLIPSS
MIKSEDTVMEVTAEKRSSTIFKTTKSVGSTQQTLENISNIAGNGSFSSPSSSHLPSENEKQQQIQPKAYNPETL
TTIQTQDISQPGTFPAVSASSQLPNSDALLQQA TQFQTRETQSREILQSDGTVVNLSQLTEASQQQQQSP LQEQ A
QTLQQQISSNIFPSPNSVSQ LQNTIQQLQAGSFTGSTAGSSGSVDLVQQVLEAQQQLSSVLF SAPDGNENVQEQ
LSADIFQQVSQIQSGVSPGMFSSTEPTVHTRPDNLLPGRAESVHPQSENTLSNQQQQQQQQQQVMESSAAMV MEM
QQSICQAAAQIQSELFPSTASANGNLQQSPVYQQTSHMMSALSTNEDMQMQCELFSSPPAVSGNETSTTTTQQVA
TPGTTMFQTSSSGDGEETGTQAKQIQNSVFQTMVQM QHSGDNQPQVNLFSSTKSMMSVQNSGTQQQGNGLFQQGN
EMMSLQSGNFLQQSSHSQAQLFHPQNP IADAQNL SQETQGS LFHSPNP IVHSQTSTTSSEQM QPPMFHSQSTIAV
LQGSSVPQDQQSTNIFLSQSPMNNLQTNTVAQE AFFAAPNSISPLQSTSNSEQQA AFQQQAPISHIQTPMLSQEQ
AQPPQQGLFQPQVALGSLPPNPM PQSQQGTMFQS QHSIVAMQSNSPSQEQQQQQQQQQQQQQQQQSILFSNQNT
MATMASPKOPPPNMIFNPNQNP MANQEQQNQSIFHQQSNMAPMNQEQQPMQFQSQSTVSSLQNP GPTQSESSQTP
LFHSSPQIQLVQGSPSSQEQQVT LFLSPASMSALQTSINQQDMQQSPLYSPQNNMPGIQGATSSFPQATLFHNT
AGGTMNLQNSPGSSQQTSGMFLFGIQNNCSQLLTSGPATLPDQLMAISQPGQPQNEGQPPVTTL LSQQMPENSP
LASSINTNQNI EKIDLLVSLQNGNNLTGSF

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FIGURE 708

CGTGCA~~CCCT~~GAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTGCCCATGAT
CCGCTTTATCCTCATCCAGAACCGGGCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGA
GAAACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCAACGTCGAGACGCCAAACACACCAACTTTGTGGAGGT
CTTAAACGAATATTTCCACAATGTCTGTGAACTGGACCTGGTGTCAACTTCTACAAGGTTTACACGGTCGTGGA
CGAGATGTTCCCTGGCTGGCGAAATCCGAGAGACCAGCCAGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTC
CCTGGAGTGAGGGCAGGCGAGCACCCACCCCGGCCCCGGCCCCCTCCTGGAATCGCCTGCTCGCTTCCCCTTCCC
AGGCCCCGTGGCCAACCCAGCAGTCCTTCCCTCAACTGCCTAGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAG
GGAGGAGACTTCACCCCACTTCCCTCTGGGCCCTGGCTGTGGGCAGAGGCCACCGTGTGTGTCCCGAGTAACCGTG
CCGTTGTGCTGTGATTCCATAAGCGTCTGTGCGTGGAGTCCCCAATAAACCTGTGGTCCTGCCTGGC

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FIGURE 709

MIRFILIQNRAGKTRLAKWYMQFDDDEKQKLIEEVHAVVTVRDAKHTNFVEVLNEYFHNVCELDLVFNFYKVYTV
VDEMFLAGEIRETSQTKVLKQLLMLQSLE

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FIGURE 710

CCAACTTATTTAAAACAAAACAATTTTGTAGGTATTATTATACCCATTTTCACAGATGATGATAAATGAGACCAAT
AGAAGTTAAATAACTTGCCAAAGGCCACACAGCTGGTGAGTGATGGAGAACGAATTAAAACTCAAGTGAGCATAA
TTCTAAAAGCCATCTTCTCGTTAGTGTCTTCTACTATCCAGGTCTGCCTTTGCCTTATTTAACTGAAGTTAAGCC
ATCCTTACCTGTGATCACCTAGCCTCTCAGTTTGGGGGATCATTACAGCGGGTTTTTAACTCCCAATGTTCTGG
TCCAGTTTGCTTTACATGTTCTTATTTATACATTGTCAAGGATGACCTCAGGACAGTACAGCAAGGACACAGTGG
CACTTCACATTTTGTTCACGAAATGACTGGGGCATAATCTCAGATCATCTTCCTTTAGAATGTGGAAACATCA
GCAGAAGAATATTAGTCTTTATACAAGTCAAATCCAAAATGACACATGTGAAAACTAATAGAGCTGACTTTCAGC
CATGATAGCTTTGGCACACCTCACATCCCTTTGTTCAACCTCTCTTCCCTCAACGGAGAGCTGCATTCTTGGGAA
TTTCTGTTGTGCACTTTTCCCACTTGCCCTGCTGTCAATTTAAAGGTGAACATTCTAGTTTTGCTAAGAAAACCTT
TTCCTTCATTTGGAAATGAACAGCAATTTTATTACTTTTGACCTTAAATGAGTTTGCTGCCTTCAAATCTTTTCA
GCGCCTTCATCACGCTCTGCTTCGGGGCGATCTTCTTCTGCCAGACTCCTCCAAGCTGCTCAGCGGGGTCTGT
TCCACTCCAGCCCCGCCCTTGACGCCGGCCGCCAGCACAAAGCCCCGGGGCGCGCGCCGAGGACGCGGCCG
AGGGGCGAGCCCCGCGCGCGAGGAGGGGGCACCCGGGGACCCGGAGGCCCGCTGGAGGACAACCTTGGCCAGGA
TCCGCGAAAAACCACGAGCGGGCTCTCAGGGAAGCCAAGGAGACCCTGCAGAAGCTGCCCGAGGAGATCCAAAGAG
ACATCCTACTGGAGAAGAAGAAGGTGGCCCAGGACCAGCTGCGTGACAAGGCGCCGTTTCCAGAGCCTGCCCCCGG
TGGACTTCGTGCCCCCAATCGGGGTGGAGAGCCGGGAGCCCGCCGACGCCCATCCGCGAGAAAAGGGCAAAGA
TCAAAGAGATGATGAAACATGCTTGGAAATAATTATAAAGGTTATGCCTGGGGATTAAATGAACTCAAACCTATAT
CAAAAGGAGGCCATTCAAGCAGTTTGTGTTGGTAACATCAAAGGAGCAACTATAGTAGATGCCCTGGATACACTTT
TTATTATGGAATGAAACATGAATTTGAAGAAGCAAAATCATGGGTTGAAGAAAATTTAGATTTTAAATGTGAATG
CTGAAATTTCTGTCTTTGAAGTAAATATACGCTTTGTTGGTGGACTACTCTCAGCCTACTATCTGTCTGGAGAAG
AGATTTTTTCGAAAGAAAGCAGTGGAACTTGGGGTAAATTTGCTACCTGCATTTTCACTCCCTCTGGAATACCTT
GGGCATTGCTGAATATGAAAAGTGGTATTGGAAGGAAGTGGCCCTGGGCCCTCTGGAGGCAGCAGTATTCTGGCAG
AATTTGGAACCCCTGCATTTGGAGTTTATGCACTTGAGCCACTTATCAGGAAACCCCATCTTTGCTGAAAAGGTAA
TGAATATTGCAACAGTACTGAACAAACTGGAAAAACCACAAGGCCTTTATCCTAACTATCTGAATCCCAGTAGTG
GACAGTGGGGTCAACATCATGTATCAGTTGGAGGACTTGGAGACAGCTTCTATGAGTATTTGCTGAAGGCCTGGT
TAATGTCTGACAAGACAGATCTGGAAGCTAAGAAGATGTATTTTGATGCTGTTTCAAGGCTATCGAGACTCATTGA
TCCGCAAGTCTAGCAGCGGACTAACTTATATCGCAGAGTGGAAAAGGGGCTCCTGGAGCACAAAGATGGGCCACC
TGACCTGCTTCGCGGGGGGCGATGTTTCGCACTCGGGGCTGATGCAGCTCCCGAAGGCATGGCCCAACACTACCTTG
AACTCGGGGCTGAAATTGCCCGTACTTGTTCATGAATCATATAATCGAACATTTATGAACTGGGACCAGAAGCTT
TCAGATTTGATGGTGGTGTGGAAGCCATCGCTACAAGACAAAATGAAAAATACTACATCTTACGGCCAGAAGTTA
TGGAGACTTACATGTATATGTGGAGACTGACTCATGATCCAAAGTACAGGAAATGGGCCTGGGAAGCCGTAGAGG
CCTTGGAACCATTCAGAGTGAATGGAGGCTATTGAGGCCTAAGGGATGTTTACCTTCTTCATGAGAGTTATG
ATGATGTGCAGCAGAGTTTCTTCCGAGAGACATTGAAATATTTGTACCTAATATTTTCTGACGACGATCTTC
TTCCACTGGAGCATTGGATCTTCAATAGCGAGGCACATCTTCTCCCTATCCTCCCTAAAGATAAAAAAGGAAGTTG
AAATCAGAGAGGAATAAAAAGACATTTATATTTTATTCTGCTCCATTCCCTTCACTGTATACCTTAATAATTCC
TTTTCTGGTAATCAGGCACATGATGAACCTTTGATTAGTAGGTCTGTGATTAAGTTCTTAAATGTGTTTGCAGTCT
TTTATGTTTATTTATCATAGGTATAGGTGGACCTAAATTCCTTATCATATCTTTATTAATTCAGCCAGTGTATCCA
CCAGTTTTTTGTTTATGTTTTTAAGTAACCTATTATCTCTGGATTTTCATGAAGGTGTAATATCGTTTTTGTGTTAAA
CTGAATAGAATTGTATAGCGATGACCTCTTAATTATAATTTGATTTGACTGCAAAACTTTTTCTCCTCTAAGAG
GAGATGATGTCTGCTTTAAGCTGTAATGTTTTGCCATGTTGCAAAAAGCCATAATAATAAGTATAAAAAAGCTTT
TTCCTTTACAATTTTCATGTTAATCTGGTTTTGTCTGTCCACCAGAGACAGATCTTCTGTGACAGCCTCCTTATGCA
GGTCTATCATTATTTGATAGAATGTCTTCTAAAATACTTCACTCACATTGTAATTCAAATTAGAAAGTCATTCCA
AAAGGTCATGTCATGTTGACCTCATTTTCATCGGAAGTGCAGTATATTTTTGTTGGTTAATTATATTAGTGTTC
TATTTTGAAAAA

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FIGURE 711

MNSNFITFDLKMSLLPSNLFSAFITLCFGAIFFLPDSSKLLSGVLFHSSPALQPAADHKPGPGARAEDAAEGRAR
RREGAPGDPEAALEDNLARIRENHERALREKETLQKLPEEIQRDILLEKKKVAQDQLRDKAPFRGLPPVDFVP
PIGVESREPADAAIREKRAKIKEMMKHAWNNYKGYAWGLNELKPI SKGGHSSSLFGNIKGATIVDALDTLFIMEM
KHEFEEAKSWVEENLDFNVNAEISVFEVNIRFVGGLLSAYYLSGEEIFRKKAVELGVKLLPAFHTPSGIPWALLN
MKSGIGRNWPWASGGSSILAEFGTLHLFEMHLSHLSGNPIFAEKVMNIRTVLNKLKPKQGLYPNYLNPSSGQWGQ
HHVSVGGLGDSFYEYLLKAWLMSDKTDLEAKKMYFDAVQAIETHLIRKSSSGLTYIAEWKRGLLEHKMGHLTCFA
GGMFALGADAAPEGMAQHYLELGAEIARTCHESYNRTFMKLGPEAFRFDGGVEAIATRQNEKYIILRPEVMETYM
YMWRLTHDPKYRKWAVEAVEALENHCRVNGGYSGLRDVYLLHESYDDVQQSFFLAETLKYLILIFSDDDLLPLEH
WIFNSEAHLPLPDKDKKEVEIREE

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FIGURE 712

ATGAGTGTGGCAAAGCCTTTGGCAAGCAGTCAACACTTATTCACCATCAGGCAATTCATGGTGTAGGGAAACTTG
ACTAATGTAATGATTGTCACAAAGTCTTCAGTAATGCTACAACGATTACAAATCATTGGAGAATCCATAATGAAG
AGAGATCTTACAAGTGTAATAAATGTGGCAAATTTTTTCAGAGATCGTTCACATATTGCAGGTCATCGGTGAACTC
ATACTGGAGAGAAACCTTACAAATGTCATGACTGTGCCAAGGTCTTCAGTCAAGCTTCATCCTATGCAAAACATA
GGAGAATTTATACAGGAGAGAAACCTCACAAAGTGTGATGATTGTGGCAAAGCCTTTGCTTCACGTTACACGTCA
TTAGACATCAGAGAATCTATACTGGACAGAAATCTTACAAATGTCATCAGTGTGGCAAGGTCTTCAGTCCAAGAT
CACTCCATGCAGAACATCAGAAAATTCATTTTTGAGATAACCGTTCCTCAATGAAATGAGTATAGCAAACCATCAA
GCATTAATTGACATTGGAGTCAATTCAGCATTGACTTGAGTTTGTGTTGACTTAACATTGAGTTCAAGCCTTTAT
TGACATTCAAGTGTTTATGTTAAGAGGATGGGGCCAGGTGTGGTGGCTCCGACCTGTAATCCCAGCACGTCGGGA
GGCCAAGGCACATAGGTCACTTGAGGTGAGGAGTTTGAAACCAGCATGGCCAACAGATGTGAGCCACTTTTCTCA
GCCTGTTTTTTGTTTCTTATTTTCTATTATTTTTTTGAGCCAGTACTTTTTTAAAGAGATAGTACTTTTTTTCAGTT
AGTACTTTTTTGAAAGGGATATATCATAGTAATTTTTTAAAGGGATATGAGGCCAGGCACGGAGGCTCATGCCTGT
AATCCCAGCACTTTGGGAGGCCGAGGCAGGCAGATCACGGGGTCAGGAGATCGAGACTTTCCTGGCTAACAGGGT
GAATCCCTGTCTCTACTAAAAATACAAAAAATTAGCTGGGCATGGTGGCTGGCGCCTGTAGTCCCAGCTACTCCA
GATGCTGAGGCAGGAGAATGGCATGAACCTGTGAGGCGGAGCTTGCAGGGAGTCGAGATCGCGCCACTGGGCTCC
AGCCTGGGCGACAGAGTGAGAGTCTGTCTCA

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FIGURE 713

MLQRLQIIGESIMKRDLTSVINVANFSEIVHILQVIGELILERNLTNVMTVPRSSVKLHPMQNIGEFIQERNLTS
VMIVAKPLLHVHTSLDIRE SILDRLTNVISVARSSVQDHSMQNIRKFIFEITVPNEMSIANHQALIDIGVNSAL
T

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FIGURE 714

CCTACTGGTAGATCTTCACAGACTGGATGTTAAGCAAGTGGAAAGGCAGAACAGCCTCCACTCGCGGTGCACGGG
GAAGAGTGGGCGGCGGACGTGGTTTTGGGCCTGGGACCCAGGTGTTCCCTCTAGGCCAGGGCGGGCATCGCTGCC
CATCCGTCCACAGGTGGTTCTGAGGCGTCTCTCAACAGCCATATGGCGGACACCAGAACCCGGGTGTAACAGTG
ACCCGTTTTCTGTGTGGGTCCCCACTCCCAGGGAGGGCAGGAGAGCGCGGGGGCGTAACCCCCCTCCCCACGCT
GGCACCAGAGTGTGAGCAGAATCGGCTTAAGGCAGCTCCCAGTCCCCATCGCCCCAAGGTGAAAGAATCGGGA
CAGGAAATGGGTCTGGGGGACCGAGTTTGGGCCGGAATGTTTCAGAGCGTGTCCGTCTGTCTTTAAAGCCCTCT
CTCCATCCCAGAACCAGCCGGGCGCCCCAGCGCTCGCTGCGGTCTCGCGCCGGGTAAACGGCCGATGGCCGC
CCCCGCCCCAGCCGAGCCGGGGAGGAAATCCCGCGCCTCGGAAGAGGCGCTTCGGGCTCGGGCGGGTTCCGGAA
GCCGAGGGGCGGGAGTAGGTGGGCGCATAGGGGCTCCTGGGAGGCGGGACCAAGACGCGCGTTACCGGGAGGCC
AGGCCCGGCGCTGCACCCTCCGCGGCCCGGGCCCTGAGGCGGGGCTCCCGCGACTTCCCGGCCAAAGCAGCGCA
GCGCCCGGGCGGCCAGCCCCGAGCGGCCACAGCAGCATAGCCGGGCGAGCGGATCCAGAGGCCCGGGCTTCCT
TCCTGTGCGAGTCGGCGCGGACGACTGCTAGTCCAGCCGTTGGGCGCCGCTGGATCTCGGCGCCTGGCCCTTAA
AGAGACCCGGTCGCATTTTCATCTCAGCGAGAGGAGAAATACTCGAAGGGAGAGGTTCCGCCGTGGCAGCCAGAAG
CCTTACCACTGCTAGGACGCTGGCAGAACGCACCCATAACTTGGCAACACTCGGAGGATGGATGGCAAATAATAC
CAGCGACTGAAGGGTTAATTAATGATTGCAGATTAATTGAACACCTTCCGTAATCAGACACCTGGCACACACTCA
TGATGTCACTTATTCTCCCAACAACCCTGCAAATAGATAACTGTCTCTCCCATTCTCCGAGCTTGTCTCTCAGAG
AATTAGGTAACTTGTTCAAATGGTCAGAAGCAACAGATATAACTCCTTGCTCTACTCTTTCCCCCTTCTCACT
ACTGCACTTGACTAGTCTTTTTTAAACATAATTTTTTTGGCCAGGCACGGTGGCTCACGCCTGTAATCCCAGCAC
TTTGGGAGGCCAAGGAAGGCAGATCACCTGAGGCCAGAAGTTCGAGACCAGCCTTGGCCAACATGGCGAAACCCC
ATCGCTACTAAAAATGCAAAAATTAGCTGGGTGTGGTGGGGGGCACCCGTATTCCAGCTACTCAGAGGCTGAGG
CAGGAAAATCGCTTGAACCTGGAGGCAGAGATTGCAGTGAGCCGAGATCATTGCATTGCACTCCAGCTTGAGCAA
CAGAGGGACACTTCGTTCCCCCGCCAAAAAAATTTTTTTTTTAATGATCAGAAGCGGCTGGGCGCGGTGGC
TCGGGCTGTAAATCCAGCACTTTCGGAGGCCGAGGAAGGTAGATCACTTGAGGTCATGAGTTCAAGACCAGCCT
GACCAACATGGCCAAAACCTGTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTAGCGCACGCCTGTAATCC
CAGCTACTCAGGAGGCTCAGGCACGAGAATCGCTTGAGTCTGGGAGGCGGAGGTTGCAGTGAGCTGAGATCGTGG
CCACTGCAATCCAGCCTGGGCGATAGAGTGAGACTACGTCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 715

MFRACPSCSLKPLSPSQNQSRAAPPALAAVSRPGNGRWPPPPQPQPGRKSRASEEALRARAGSGSRGAGSRWAHRG
SWEAGPRRALPGGQARRCTLRGPGPEAGLPRLPGPKQRSARAAQPRSGHSSIAGRADPEARASFLCESARTTASP
AVGRRDLGAWPLKRPGRISSQREEKYSKGEVRRWQPEALPLLGRWQNAPITWQHSEDGWQIIPATEGLINDCRL
IEHLP

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FIGURE 716A

AGCTTGAGCGCGGCGGCGGCGGCGTTGTTTCAGTCAGAGCGAGAACATTCCAGAGGTCGCCCAGCTCCGGCGCTGACGG
GTGTGGACCGCGGACGTCGCTGGGACAGCCCTCCCGCTGCTCGGCGGCGGCATCTGGCCCGGCCGCTCCTCGC
TGCCTTCGCTCCGCTCCTCGGACTCGGACTCGGGTTTATATCGCGCTCACTTCATCCCAGTCCCGGGCGAG
CAGCGTTGGGTTTATGTCTTTATTTGACGAAAACGAGCTGTTGCGCAGCCATTGGTACCTGTATTGGGGAACAT
AGCATACAAGCAAGAAGCTTACAGCCTCAGTGGCGAAAATTTTTTCATGTTCAGAGACCGAGAATCTTGCAGTCG
TTTATGTTCATCCCTTCTTCTCCAGACAGAAGATACCAAAAAGTTGCAATCAAAGATCTCTTCATCTTATTGATAA
AGCCACTAATAAGCCAAAATGTCCTGTCAATGTCAACCGCAGCGTGTTCAGACCAGTTCTATCGCTACAAGATGCC
CGTCTGATTGCCAAGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAG
GCGCTTAATCGGCCTCCAACGTATCCACCAAATATTTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTT
AAGAATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTCAATAA
AAATTTGTTCTCTGTCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCCAAAGAAGCAAACAATAGGT
AATTCTTGTAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAACTCTGCACATTCATTCTCAAAAAC
CCACCTGAGAATAGTGACAGTGGTACAGGAAAGAAAGAAAAGAAAAGAAAACAGAAAGGGCAAAGACAAGGAA
AATGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCACCACCACCACCACCACCACCACCACCACCACC
ATGGAAGAAGAGGAGGATGATGACTGGGGAGAAGATACAACCTGAGGAAGCTCAAAGGCGTCGAATGGATGAAATC
AGTGACCATGCAAAAGTTCTGACACTCAGTGATGATTTGGAAAGAACAATTGAGGAGAGGGTCAATATCCTCTTT
GATTTTGTAAAGAAAAGAAAAGAGGGTGTATTGATTTCATCTGACAAAGAAATCGTTGCTGAAGCAGAAAGA
CTGGATGTAAAGCCATGGGCCCTCTTGTCTAAGTGAAGTTCTTTTTAATGAGAAGATTAGAGAACAGATTAAG
AAATACAGGCGCCATTTCTACGATTTTGTCAACAACAAAAAGCCCAACGGTACCTTCTTCATGGTTTGGAG
TGTGTGGTAGCAATGCATCAAGCTCAGCTTATCTCCAAGATTCACATATCTTGAAGGAGATGTACGATGCAGAC
CTTTTAGAAGAAGAGGTCAATCAGCTGGTTCGGAAGGCTCTAAGAAATATGTCTCCAAAGAACTTGCCAAA
GAGATTCGTGTCAAAGCAGAACCATTTATAAAATGGTTGAAGGAGGCAGAGGAAGAATCTTCTGGTGGCGAAGAA
GAAGATGAAGATGAGAACATTGAGGTGGTGTATTGGAAGGCTGCCAGTGTACCGAAAGTTGAGACTGTAAAGTCA
GACAACAAGGATGACGACATCGATATTGATGCCATTTAAGGGGATGGATGCAACCTAGCTTAACAGTATAATGCT
GCAAAATTTCTCCATTATCAGCCAGAAGTGCAACATGTATGTGCAAAAGCTAAAATGGCTTAACATCATGCTAC
ACTTTACACTAAAATCTATTACTGTGAGTGGTCTGTTATTAAGCCCAATGAGACATCTAGGGAGTCCATACACA
TCAGTGAGCAGATGTAGTTTGCTTATTTATAGCATGTTTCTTTTTGAAAAGCTAGTGGTGGACACATTTGGATCA
CATTTATACAGTTATAAAAATAAAGGTTTGATTTTGGTCTGTTCTTCAGATGTTTGGCTCTGAATGACTTAAGCTG
AAGTAACTGGCTCCTTACTTTAAATGTTCTGCCATCATTTCACCTGATGAGCATTCTTGGAGCCTGCCAGATATT
GTTAGGTCTTGGGCTGCAAGAGGTCCTCAACAGGATGTAAAGCAAACCTAATTGTAATTAATTTATTTCAGCCC
ATTAAGAAAGTACTAAAGTTTTATCTCTGTAGTTCTCAAAATGGCATCTGGTAATGTACATTGTGAGGTAGACT
GATAATGAAATGACAGTGCAACATCTTAACCAAGAAGTAAATATGACCTCAGTGTCTATAAAATAATGTAAGAGC
AGGATTTGAACTTGAGAGCTGTTTCTCATTTCATGTACACTTGCCCCAAATTGTCTTTGAAAGTCGTGTGCAT
TGCACGTTGGATGAGCCAGGGAATTAATACATTAACAAGCATTTTGTGTGTGCGTAGTAGTTACTTTGTACTGA
GAGAACTTGCTTTGGGGTGCAATTAACAATAAAGTGAATTTATTTGGGAGAAACAAGGAAGGGTGCACTTAAC
AGCAACCTAAGCATGATTTTTCAGCTTTTGGCCCTTAGGGTTTTAAATTACAATTCCAAAATGTTAGACATACTGTA
TTTTTTCGTTTCAGTGTGGCTTTAATTTTCCCTCTTGACGTTTGTTCGTAATGCCTTTTACATTTGGACACATA
GTTTATGCTTTTTTAGATTTTGGTTGCTTTCTTGCCAAAATAAGTGTTAACTGTGTTTCAAACCTTGATTTCTTT
TTTTTCTTTTTTTTTCTTCCAGAAATGTCTTATTTAAAAGAAAGCTAAAAGCATACTTCTAAGTCAGAGCCTCT
ATTTTGGTGTAAGACTTGGGATATTTTTTACTTCACATTGAATATAGCCAGGCACCCAAGAAGTCTGATGGCCAC
CTGAGTGCAGGTGACAAGGACCTGACAGAGCCCATGCAGGGCTTTAGATTTGGACACACAAGAGTTGATAACTTC
CTCATGAACCTCTTGCTGATCTAACTCATATTATGGGTTCTGACTGTTTGAGTAATCGTCTTCAAGGTTAAAC
CTCTTGGCAGTTACCTTTTTACAAAAGTGACAGTGGGAATCGAGAATCGATAGGGTTAATTTTGGAGCAGTGGC
TTATACCATTCACCTCTGTTTTTTTGTGATTATTTACAGATAATGAGACCTTAATAACAAATAGGCGTAAAAAA
ATTTTCACATTGAAATGATAGAAACATTTGATGTAATAAACTTGGTTGGCTTGATATTTAAGGAATTGAAACC
TAGCAATCTTATTGGAGAGACAAGAATTGGTCTCCAGCTGCCTTTGATCAAGATTGGGGTGCAAGTGGAGCAGGA
GCCATATACCTGGAGGGAATGTGCTTTGTACACCAAAGAGGATTTTTTTTTTCTTCAAACCTGTATGTTGCCTA
GTTTTCAAATCTTTTGGCGCAAGGCTGATCTGCTTTCATTAACCTGGAATCTGTAGGAGATACTGGTGACCTAAG

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FIGURE 716B

CTAAGTTGCACTCAGCATACTCAGTGTCAAGCTAATGAGGTTCTATTATAAAGGTTCTACTTTTAATCTGAGGGA
AAACATGTTTCAGGGCTTCTAGAACACTAAAAAATTGGCTTAAACCAGTGTTTCAGTCTGGTGCCAACTTCGAAT
GGAATACAAATTCACATAATCTGAACTTTGTTTACAGGTTATCCTAATAGAGTAATTCTTCACCTTGCTCTATTG
AACTGTCTTAAGGATTTGTTTAAACAGCTAAGTTACTTGATTAAATAATGATAAAATTGTAAAAAAAAAAAAA

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FIGURE 717

MSVNVNRSVSDQFYRYKMPRLIAKVEGKGNGIKTVIVNMVDVAKALNRPPTYPTKYFGCELGAQTQFDVKNDRI
VNGSHEANKLQDMLDGF IKKFVLCPECENPETDLHVNPKKQTIGNSCKACGYRGMLDTHHKLCTFILKNPPENS
SGTGKKEKEKKNRKGKDKENGSVSSSETPPPPPPNEINPPPHMTMEEEEDDDWGEDTTEEAQRRRMDEISDHAKV
LTLSDDLERTIEERVNILFDFVKKKKEEGVIDSSDKEIVAEAEERLDVKAMGPLVLTEVLFNEKIREQIKKYRRHF
LRFCHNNKKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEV IISWSEKASKKYVSKELAKEIRVKA
EPFIKWLKEAEEESSGGEEDDEDENIEVVYSKAASVPKVETVKS DNKDDDDIDDAI

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FIGURE 718

GGGGCGGGGAGCGGACTTCCTCCTCTGAGGGCCGTGCCGCGCTGCCAGATTTGTTCTTCCGCCCCTGCCTCCGCG
GCTCGGAGGCGAGCGGAAGGTGCCCCGGGGCCGAGGCCCGTGACGGGGCGGGCGGGAGCCCCGGCAGTCCGGGGT
CGCCGGCGAGGGGCC**ATG**TCGCTGTTGGGGGACCCGCTACAGGCCCTGCCGCCCTCGGCCGCCCCACGGGGCCGC
TGCTCGCCCCCTCCGGCCGGCGGACCCCTCAACCGCTGCCGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGG
ATCAGGCGCCCCGAGGGCCGGGGCTGGAGGAGACTGGCGGAGCTGGCGGGGAGTCGCGGGCGCCTCCGCCTCAGTT
GCCTAGACCTGGAGCAGTGTTCTCTTAAGGTACTGGAGCCTGAAGGAAGCCCCAGCCTGTGTCTGCTGAAGTTAA
TGGGTGAAAAAGGTTGCACAGTCACAGAATTGAGTGATTTCTGCAGGCTATGGAACACACTGAAGTTCTTCAGC
TTCTCAGCCCCCAGGAATAAAGATTACTGTAAACCCAGAGTCAAAGGCAGTCTTGGCTGGACAGTTTGTGAAAC
TGTGTTGCCGGGCAACTGGACATCCTTTTGTTCATATCAGTGGTTCAAATGAATAAAGAGATTCCAAATGGAA
ATACATCAGAGCTTATTTTTAATGCAGTGCATGTAAAGATGCAGGCTTTTATGTCTGTGAGTTAATAACAATT
TCACCTTTGAATTCAGCCAGTGGTCACAGCTGGATGTTTGCACATCCCAGAGAGCTTCCAGAGAAGTGTTGATG
GCGTCTCTGAATCCAAGTTGCAAATCTGTGTTGAACCAACTTCCCAAAGCTGATGCCAGGCAGCACATTGGTTT
TACAGTGTGTTGCTGTTGGAAGCCCTATTCTCCTACTACCAGTGGTTCAAAAATGAATTACCATTAAACACATGAGA
CCAAAAGCTATACATGGTGCCCTTATGTGGATTGGAACACCAAGGAACCTACTGGTGTCTATATATAATGATC
GAGACAGTCAAGATAGCAAGAAGGTAGAAATCATCATAGGAAGAACAGATGAGGCAGTGGAGTGCAGTGAAGATG
AATTAAATAATCTTGGTCATCCTGATAATAAAGAGCAAACAACCTGACCAGCCTTTGGCGAAGGACAAGGTTGCC
TTTTGATAGGAAATATGAATTACCGGGAGCACCCCAAGCTCAAAGCTCCTTTGGTGGATGTGTACGAATTGACTA
ACTTACTGAGACAGCTGGACTTCAAAGTGGTTTCACTGTTGGATCTTACTGAATATGAGATGCGTAATGCTGTGG
ATGAGTTTTTACTCCTTTTATAGACAAGGGAGTATATGGGTTATTATATTATGCAGGACATGGTTATGAAAAATTTG
GGAACAGCTTCATGGTCCCCGTTGATGCTCCAAATCCATATAGGTCTGAAAATTGTCTGTGTGTACAAAATATAC
TGAAATTGATGCAAGAAAAAGAACTGGACTTAATGTGTTCTTATTGGATATGTGTAGGAAAAGAAATGACTACG
ATGATACCAATCCAATCTTGGATGCCTAAAAGTCAACGCCAATATTGTGTTTGGATATGCCACGTGTCAAGGAG
CAGAAGCTTTTGAATCCAGCATTCTGGATTGGCAAATGGAATCTTTATGAAATTTTAAAGACAGATTATTAG
AAGATAAGAAAATCACTGTGTTACTGGATGAAGTTGCAGAAGATATGGGTAAGTGTACCTTACCAAAGGCAAAC
AGGCTCTAGAGATTGGAAGTAGTTTATCTGAGAAGAGAGCACTTACTGATCCAATACAGGGAACAGAATATTCTG
CTGAATCTCTTGTGCGGAATCTACAGTGGGCCAAGGCTCATGAACCTCCAGAAAGTATGTGTCTTAAGTTTGACT
GTGGTGTTCAGATTCAATTAGGATTTGCAGCTGAGTTTTCCAATGTCATGATCATCTATACAAGTATAGTTTACA
AACCACCGGAGATAATAATGTGTGATGCCCTACGTTACTGATTTTCCACTTGATCTAGATATTGATCCAAAAGATG
CAAATAAAGGCACACCTGAAGAACTGGCAGCTACTTGGTATCAAAGGATCTTCCCAAGCATTGCCTCTATACCA
GACTCAGTTCACTGCAAAAATTAAAGGAACATCTAGTCTTCACAGTATGTTTATCATATCAGTACTCAGGATTGG
AAGATACTGTAGAGGACAAGCAGGAAGTGAATGTTGGGAAACCTCTCATTGCTAAATTAGACATGCATCGAGGTT
TGGGAAGGAAGACTTGCTTTCAAACCTGTCTTATGTCTAATGGTCCTTACCAGAGTTCTGCAGCCACCTCAGGAG
GAGCAGGGCATTATCACTCATTGCAAGACCCATTCCATGGTGTTTACCATTACATCCTGGTAATCCAAGTAATG
TTACACCAGCAGATAGCTGTCAATTGCAGCCGGACTCCAGATGCATTTATTTCAAGTTTCGCTCACCATGCTTCAT
GTCATTTTAGTAGAAGTAATGTGCCAGTAGAGACAACCTGATGAAATACCATTTAGTTTCTCTGACAGGCTCAGAA
TTTCTGAAAA**TGA**CCTCCTTGTTTTTGAAGTTAGCATAATTTTAGATGCCTGTGAAATAGTACTGCACTTACA
TAAAGTGAGACATTGTGAAAAGGCAAATTTGTATATGTAGAGAAAGAATAGTAGTAACTGTTTCATAGCAAACCT
CAGGACTTTGAGATGTTGAAATTACATTATTTAATTACAGACTTCCTCTTTCT

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FIGURE 719

MSLLGDPLQALPPSAAPTGPLLAPPAGATLNRLREPLLRRLSELDDQAPEGRGWRRLAELAGSRGRLRLSCLDLE
QCSLVLEPEGSPSLCLLKMGEKGCTVTELSDFLQAMEHTEVLQLLSPPGIKITVNPESKAVLAGQFVKLCCRA
TGHFPVQYQWFKMNKEIPNGNTSELIFNAVHVKDAGFYVCRVNNNFTFEFSQWSQLDVCDIPESFQRSVDGVSES
KLQICVEPTSQKLMPGSTLVLCVAVGSPIPHYQWFKNELPLTHETKKLYMVPYVDLEHQGTYWCHVYNDRDSQD
SKKVEIIIGRTDEAVECTEDELNNLGHPDNKEQTTDQPLAKDKVALLIGNMNYREHPKLKAPLVDVYELTNLLRQ
LDFKVVSLDDLTEYEMRNAVDEFLLLLDKGVYGLLYYAGHGYENFGNSFMVPVDAPNPYRSENCLCVQNILKLMQ
EKETGLNVFLDMCRKRNDYDDTIPILDALKVTANIVFGYATCQGAEAFEIQHSGLANGIFMKFLKDRILLEDKKI
TVLLDEVAEDMGKCHLTGKQALEIRSSLSEKRALTDPIQGTEYSAESLVRNLQWAKAHELPESMCLKFDCGVQI
QLGFAAEFSNVMIIYTSIVYKPPEIIMCDAYVTDFFPLDLIDPKDANKGTPEETGSYLVS KDLPKHCLYTRLSSL
QKLKEHLVFTVCLSYQYSGLEDTVEDKQEVNVGKPLIAKLDMHRGLGRKTCFQTCLMSNGPYQSSAATSGGAGHY
HSLQDPFHGVYHSHPGNPSNVTPADSCHCSRTPDAFISSFAHHASCHFSRSNVPVETTDEIPFSFSDRLRISEK

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FIGURE 720

ACCCAGGGTCCGGCCTGCGCCTTCCCGCCAGGCCTGGACACTGGTTCAACACCTGTGACTTCATGTGTGCGCGCC
GGCCACACCTGCAGTCACACCTGTAGCCCCCTCTGCCAAGAGATCCATACCGAGGCAGCGTCGGTGGCTACAAGC
CCTCAGTCCACACCTGTGGACACCTGTGACACCTGGCCACACGACCTGTGGCCGCGGCCTGGCGTCTGCTGCGAC
AGGAGCCCTTACCTCCCCTGTTATAACACCTGACAGCCACCTAACTGCCCCCTGCAGAAGGAGCAATGGCCTTGCC
TCCTGAGAGGTAAGAGCCCCGGCCACCCTCTCCAGATGCCAGTCCCCGAGCGCCCTGCAGCCGGCCCTGACTCTC
CGCGGCCGGGCACCCGACGGGCAGCCCCACGCGTGCTGTTCCGAGAGTGGTCCTTGGAGAGATCAGCAGCGGCT
GCTATGAGGGGCTGCAGTGGCTGGACGAGGCCCGCACCTGTTTCCGCGTGCCCTGGAAGCACTTCGCGCGCAAGG
ACCTGAGCGAGGCCGACGCGCGCATCTTCAAGGCCTGGGCTGTGGCCCGCGGCAGGTGGCCGCCTAGCAGCAGGG
GAGGTGGCCCGCCCCCGAGGCTGAGACTGCGGAGCGCGCCGGCTGGAAAACCAACTTCCGCTGCGCACTGCGCA
GCACGCGTGCCTTCGTGATGCTGCGAGATAACTCGGGGGACCCGGCCGACCCGCACAAGGTGTACGCGCTCAGCC
GGGAGCTGTGCTGGCGAGAAGGCCAGGCACGGACCAGACTGAGGCAGAGGCCCGCGCAGCTGTCCACCACCAC
AGGGTGGGCCCCAGGGCCATTCTTGGCACACACACATGCTGGACTCCAAGCCCCAGGCCCCCTCCCTGCCCCAG
CTGGTGACGAGGGGGACCTCCTGCTCCAGGCAGTGCAACAGAGCTGCCTGGCAGACCATCTGCTGACAGCGTCAT
GGGGGGCAGATCCAGTCCCAACCAAGGCTCCTGGAGAGGGACAAGAAGGGCTTCCCCTGAAGGGGCTGTGCTG
GAGGCCAGGGCTCCCTGCTGGGGAGCTGTACGGGTGGGCAGTAGAGACGACCCCGAGCCCGGGCCCCAGCCCG
CGGCACTAACGACAGGCGAGGCCGCGGCCCGAGAGTCCCCGCACCAGGCAGAGCCGTACCTGTACCCCTCCCCAA
GCGCCTGCACCGCGGTGCAAGAGCCCAGCCCAGGGGCGCTGGACGTGACCATCATGTACAAGGGCCGCACGGTGC
TGCAGAAGGTGGTGGGACACCCGAGCTGCACGTTTCTATACGGCCCCCGAGCCAGCTGTCCGGGCCACAGACC
CCCAGCAGGTAGCATTCCCCAGCCCTGCCGAGCTCCCGGACCAGAAGCAGCTGCGCTACACGGAGGAAGTGTGCTGC
GGCAGGTGGCCCTGGGTGTCACCTGGAGCTTCGGGGGCCACAGCTGTGGGCCCGGCGCATGGGCAAGTGCAAGG
TGTACTGGGAGGTGGGCGGCCCGCCAGGCTCCGCCAGCCCTCCACCCAGCCTGCCTGCTGCTCGGAAGTGTG
ACACCCCATCTTCGACTTCAGAGTCTTCTTCCGAGAGCTGGTGGAAATTCGGGACAGGCAGCGCCGTGGCTCCC
CACGCTATACCATCTACCTGGGCTTCGGGCAGGACCTGTCAGCTGGGAGGCCCAAGGAGAAGAGCCTGGTCTGG
TGAAGCTGGAACCCTGGCTGTGCCGAGTGACCTAGAGGGCACGCAGCGTGAGGGTGTGTCTTCCCTGGATAGCA
GCAGCCTCAGCCTCTGCCTGTCCAGCGCCAACAGCCTCTATGACGACATCGAGTGCTTCTTATGGAGCTGGAGC
AGCCCGCCTTAGAACCCAGTCTAATGAGAACTCCAGAAAGCTGGAGCAGCCACCTAGAGCTGGCC

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FIGURE 721

MPVPERPAAGPDSRPFGTRRAAPRVLFGEWLLGEISSGCYEGQLQWLDEARTCFRVPWKHFARKDLSEADARIFKA
WAVARGRWPPSSRGGGPPPEAETAERAGWKTNFRCLRSTRRFVMLRDNSGDPADPHKVYALSRELCWREGPGTD
QTEAEAPAAVPPPQGGPPGPFLLAHTHAGLQAPGPLPAPAGDEGDLLLQAVQQSCLADHLLTASWGADPVPTKAPG
EGQEGPLPLTGACAGGPGLPAGELYGWAVETTPSPGPQPAALTTEGAAAPESPHQAEPYLSPPSACTAVQEPPSG
ALDVTIMYKGRTVLQKVVGHP SCTFLYGPDPFAVRATDPQQVAFPSPAELPDQQLRYTEELLRHVAPGLHLELR
GPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVFFRELVEFRARQRRGSPRYTIYLGFGQD
LSAGRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSLDSSSLSLCLSSANS LYDDIECFLELEQPA

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FIGURE 722

TCTGCAGCCACGAGAAGCAAAGTTGACATTTCTGGATCACTCTCCCCAGACGCGTCACTTGCCCACAAGCGGGAC
ACGGCAGTCTCGCTGAGCCAGCTGTGCAGAGGGACAGATGGAAGAAAGCTAGAGATGCTGCTTCGTGGGCGCTGA
AGTTGCAGAACTTGGGCTGGTTTTCTTTCTTCCCATCCCCCTCCTCCTGACAAACCACATCTTGACTCAGATGG
TCGAAAGAAAACTCTTTCAAGTTATTTGATATTTGGGAACCTCCAGGAGACCATAACTTATTTTTGAGGGAGGC
TCCTTCTCTCCCTTTGCTGGGAAC
CACAGCTGTACACCATCGTGGTTTCAGGCTGCAGTGGCTCCGAATAGATCCCAAAGACTTTTACTGAAAATTCCTT
ATGGATCTCTGAGAAGGCGCAGCGTTGAAAGGATGACGGAGGGCCGCCGATGTCAAGTACATCTTCTTGATGACA
GGAAGCTGGAACCTCTAGTACAGCCCAAGCTGTTGGCCAAGGAGCTTCTTGACCTTGTGGCTTCTCACTTCAATC
TGAAGGAAAAGGAGTACTTTGGAATAGCATTACAGATGAAACGGGACACTTAAACTGGCTTCAGCTAGATCGAA
GAGTATTGGAACATGACTTCCCTAAAAAGTCAGGACCCGTGGTTTTATACTTTTGTGTCAGGTTCTATATAGAAA
GCATTTTCATACCTGAAGGATAATGCTACCATTGAGCTTTTCTTTCTGAACGCGAAGTCCTGCATCTACAAGGAGC
TTATTGACGTTGACAGCGAAGTGGTGTGTTGAATTAGCTTCTATATTTTACAGGAGGCAAAGGGAGATTTTTCTA
GCAATGAAGTTGTGAGGAGTGACTTGAAGAAGCTGCCAGCCCTTCCCACCCAAGCCCTGAAGGAGCACCCCTTCCC
TGGCCTACTGTGAAGACAGAGTCATTGAGCACTACAAGAACTGAACGGTCAGACAAGAGGTCAAGCAATCGTAA
ACTACATGAGCATCGTGGGGTCTCTCCCAACCTACGGGGTTCACTATTATGCAGTGAAGGACAAGCAGGGCATA
CATGGTGGCTGGGCCTGAGCTACAAAGGGATCTTCCAGTATGACTACCATGATAAAGTGAAGCCAAGAAAGATAT
TCCAATGGAGACAGTTGGAAAACCTGTACTTCAGAGAAAAGAAGTTTTCCGTGGAAGTTCATGACCCACGCAGGG
CTTCAGTGACAAGGAGGACGTTTGGGCACAGCGGCATTGCAGTGACACGTTGGTATGCATGTCCGGCATTGATCA
AGTCCATCTGGGCTATGGCCATAAGCCAACACCAGTTCTATCTGGACAGAAAGCAGAGTAAGTCCAAAATCCATG
CAGCACGCAGCCTGAGTGAGATCGCCATCGACCTGACCGAGACGGGGACGCTGAAGACCTCGAAGCTGGCCAACA
TGGGTAGCAAGGGGAAGATCATCAGCGGCAGCAGCGGCAGCCTGCTGTCTTCAGGTAGGCAGAGGCCAGCTGGAG
GGACGCCCCCTGAGCATGGCTGGGACCCAGAGGGGACCCAGGAAGGTGGGAGAGCTGCAGCTGGGGAGACTGC
AGGGCAAGCTGCTCCAAAGCTGGCTTTGCTTTCCAGACCAAGGTTGGGATCCAAATGCGAATCTGAGAAAAGTGC
TCCCAGGAATCAAATAGTGGAAGG

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FIGURE 723

MVVQAAVAPNRSQRLLLKIPYGSRLRRRSVERMTEGRRCQVHLDDRKLELLVQPKLLAKELDLVASHFNLKEKE
YFGIAFTDETGHNLWLQDRLVLEHDFPKKSGPVVLYFCVRFYIESISYLDNATIELFFLNAKSCIYKELIDVD
SEVVFELASYILQEAKGDFSSNEVVRSDLKKLPALPTQALKEHPSLAYCEDRVIEHYKKLNGQTRGQAIVNYMSI
VGS LPTYGVHYYAVKDKQGIPWWLGLSYKGIFQYDYHDKVKPRKIFQWRQLENLYFREKKFSVEVHDPRRASVTR
RTFGHSGIAVHTWYACPALIKSIWAMAI SQHQFYLD RKQSKSKIHAARSLSEIAIDLTETGTLKTSKLANMGSKG
KIISGSSGSLSSGRQRPAGGTPPEHGWDPRGDPGRWGELQLGRLQGKLLQSWLCFPDQGWDPNANLRKLLPGIK

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FIGURE 724

AAAGAGAACACAGCTAGATACTGGGCATGTGCAACTGAATGGGAGTAGTTTTACATACAGGATACTTTGGAAGCT
GGGAAGTAGGAGAAGCACCATCTCTAATTATAGGGAAGCACCACAATTGTCAGACAATTTGTCACGTTCTACAAT
TGCCACTGGCATGAGGAACCTGAGATAATGTCCCAAGTGAATCACTGTGCACTTATCCTGCTGGGGAGGATCATG
GACTAGGAATTTTGTGATACCAGCATGGATTACATGCAAGTGGTATTTTGGTTGGGAAATAAGCACATCATGCTA
GTCCTGGGCTGTTCCCTGTGTAGGGCTGCCTGCCCTTATAAAAGGACTCTCCACCACACTGATGCTATCTTCTT
GCCATTCAAGTTGTAGATCTTTGAAGACTCTGGTGAGTACAAATATTAGAAGCTTTTCTTGCACTTGATGGTGT
AGGGTCTAACCTGGGTACAGAAATGCCGTTTTATTTAACCAATTTATCCTCATGGATAGGAAAAAGAAGATAAT
GAGGTCTTGAAGGTAAATTTTAGCTGGTATTTGGTAGATAAACATGAAGGTGATGAGGAACCTGGAGTCAAATAT
ATAAAATCTTAACTGAAGGAGAGTGAGAGACACAAGATGCTGTTCTGTCTCCTGCTTCACATCTGTTCCAAATA
CATCTCTCTTGGAGTGCAATCTCCTTGGGTGATGGGTGCAAGTTTTTGCAATTCTCTTAAAAAACTCATGGCTCA
GCACCACAGCCAGCTCATTAAAACTGGTAACTAGGGCCTCATGGAAGATAAGATCACAGATTTGTTTGGTATTGG
CTAGACTTTTAAATATCTGAGTTTTTCTTCTTCAGATAGTGTGTTGATTTCAGACAACATTTGTTGCTGTCTCATAG
GCAATTTTATTTTCAGAAAATGGTAGAATGAGAGAACAGCCAGAAAGACGGAAGAAGTGAAGGTAAGAGGTCCTA
AAAGTGAAGTGTGAAGAAGGTTACAAAGTCATAAAGACTGTATTAGGGATCAAAGTTGGTCCCTAGATACTGGA
GATTTGATGTCCTAGCTAATTGCTCCACCAACAGGACTGTCTCTCTTATGAGCACTGTTTCGTGTGTATCTTTCA
GATTCTCTGAGACTGAGGAGAGATGCTTTACCAGCAGCAGCAGTGAAGCAGCCCTGCCAGCCACCTCCTGTGTG
CCCCACGCCAAAGTGCCAGAGCCATGTCCACCCCGAAGTGCCCTGAGCCTTACCTGCCTCCTCCTTGTCCACC
TGAGCATTGCCACCTCCACCATGCCAGGATAAATGCCCTCCTGTGCAACCATAACCCACCTGCCAGCAGAAGTA
TCCACCCAAGAGCAAGTAAACATCACTAGAAATTCATCAGGACCATGAAACAACAAGATCCAGTGGCTCTTCTTATT
CCCAGGACTCCATCATCTTCCCTTCAGCTGTAGTGGGAGGCTGCATCTTCCCTAACCTCTGTCTGGCTTGAGCGT
TGACAGAGAAAAGGCTTAGTTCTGAAAACCGATATGTTGTTGGAAGATGAGCAGCCAGATCATTGCCTAATCTCG
CTTTGCTGTCTGTGATGTAGATGGTGGTTCCTATCTGAGAGCAAGTGTGTTTATTCTTTTGCTTCTCCCAATA
AA

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FIGURE 725

MSYQQQQCKQPCQPPFVCPTPKCFEPCFPFKCFEYLPPPCFPEHCPPPPCQDKCFFVQPYPPCQQKYPPKSK

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FIGURE 726A

GAATTCGGGGAACGGTGTGGAGCGGAGGCCGCGGAGGCTCCTCGGTCCTTCAGCACCCCTCGGCCCGACGCACCC
ACGCCCCCTCACCCCCGAGAGCCGAAAATGACCCCAAGTGGGGTCAAAGTGCTGGAAACAGCAGAGGACATCCAG
GAGAGGCGGCAGCAGGTCTTAGACCGATACCACCGCTTCAAGGAACTCTCAACCCTTAGGCGTCAGAAGCTGGAA
GATTCCTATCGATTCCAGTTCTTTCAAAGAGATGCTGAAAGAGCTGGAGAAATGGATACAGGAAAACTTCAGATT
GCATCTGATGAGAATTATAAAGACCCAAACCAACTTGCAGGGAAAGCTTCAGAAGCATCAAGCATTTGAAGCTGAA
GTGCAGGCCAACTCAGGAGCCATTGTTAAGCTGGATGAAACTGGAAACCTGATGATCTCAGAAGGGCATTTTGCA
TCTGAAACCATACGACCCGTTTGTATGGAGCTGCACCGCCAGTGGGAATTACTTTTGGAGAAGATGCGAGAAAAA
GGAATCAAATTGCTGCAGGCCCAGAACTTGGTGCAGTACTTACGAGAATGTGAGGACGTGATGGACTGGATCAAT
GACAAGGAAGCAATTGTTACTTCTGAAGAGCTGGGCCAGGATCTGGAGCATGTAGAGGTTTTACAGAAGAAATTT
GAAGAGTTTTCAAACAGATATGGCTGCTCATGAAGAAAAGAGTTAATGAAGTGAACCAGTTTTGCTGCCAAACTCATA
CAGGAGCAGCACCCCTGAGGAGGAAGTATCAAGACTAAGCAGGATGAAGTCAATGCAGCCTGGCAGCGGCTGAAG
GGCCTGGCTCTGCAGAGGCAGGGGAAGCTCTTTGGGGCAGCAGAAGTTCAGCGCTTTAACAGGGATGTGGATGAG
ACTATCAGTTGGATTAAGGAAAAGGAGCAGTTAATGGCCTCTGATGATTTTGGCCGAGACCTGGCAAGTGTTTCAG
GCTCTGCTTCGGAAGCACGAGGGTCTGGAGAGAGATCTTGCTGCTCTAGAAGACAAGGTCAAAGCCCTGTGTGCT
GAGGCTGACCGCTGCAACAGTCCCACCCCTCTGAGTGCAACACAGATTCAAGTGAAGCGAGAGGAACTGATTACA
AACTGGGAGCAGATCCGCACCTTGGCGGCAGAGAGACATGCACGGCTCAATGATTCATACAGGCTTCAACGCTTC
CTTGCTGACTTCCGTGACCTCACCAGCTGGGTGACTGAGATGAAAGCCCTCATCAATGCAGATGAGCTTGCCAGT
GATGTGGCTGGGGCTGAAGCCCTGCTAGATAGACACCAAGAGCACAAGGGTGAATTTGATGCCCATGAAGACAGC
TTCAAATCTGCAGATGAATCTGGACAGGCACTGCTTGCTGCTGGTCACTATGCCTCAGATGAAGTGAGGGAGAAG
CTGACCGTCTTTCCGAGGAGAGAGCGGCGCTGCTGGAGCTGTGGGAGCTGCGCAGGCAGCAGTACGAGCAGTGC
ATGGACCTGCAGCTCTTCTACCGGGACACTGAGCAGGTGGACAACCTGGATGAGCAAGCAGGAGGCGTTCCTGTTG
AATGAAGACTTGGGAGATTTCTTGATAGTGTGGAAGCGCTTCTTAAGAAGCACGAAGACTTTGAGAAATCCCTT
AGTGCCCAGGAGGAAAAGATTACAGCATTAGATGAATTTGCAACCAAGCTAATTCAGAACAACCACTATGCAATG
GAAGATGTGGCCACTCGCCGAGACGCTCTGTTGAGCCGCGCAATGCCCTTCACGAGAGAGCCATGCGTCGCCGG
GCCCAGCTAGCCGATTCTTTCCATCTGCAGCAGTTTTTCCGTGATTCTGATGAGCTCAAGAGTTGGGTGAATGAG
AAGATGAAAACCTGCCACAGATGAAGCTTATAAAGATCCATCCAACCTACAAGGAAAAGTACAGAAGCATCAGGCT
TTTGAGGCTGAGCTCTCAGCAAACAGAGCCGAATTGATGCCTTGGAGAAAGCTGGCCAAAAGCTGATTGATGTC
AACCCTATGCCAAGGATGAAGTGGCAGCTCGTATGAATGAGGTGATCAGTTTGTGGAAGAACTGCTAGAGGCC
ACTGAACTGAAAGGAATAAAGCTTCGTGAAGCCAACCAGCAACAGCAATTTAATCGCAATGTTGAGGATATTGAA
TTGTGGCTATATGAAGTAGAAGGTCACTTGGCTTCGGATGATTACGGCAAAGATCTTACCAATGTGCAGAACCTC
CAGAAGAAACATGCCCTGCTAGAGGCAGATGTGGCTGCTCACCAGGACCGAATTGATGGCGTCAACATTACAGGCC
CGCCAGTTCCAAGATGCTGGCCATTTTGATGCAGAAAACATCAAGAAGAAACAGGAAGCCCTCGTGGCTCGCTAT
GAGGCACTCAAGGAGCCCATGTTTGCCCGGAAGCAGAAGCTGGCCGATTCTCTGCGGTTGCAGCAGCTCTTCCGG
GATGTTGAGGATGAGGAGACGTGGATTTCGAGAGAAAGAGCCCATTGCCGCATCTACCAACAGAGGTAAGGATTTA
ATTGGGGTCCAGAATCTGCTAAAGAAACATCAAGCCTTACAAGCAGAAATTGCTGGACATGAACCACGCATCAAA
GCAGTTACACAGAAGGGGAATGCCATGGTGGAGGAAGGCCATTTTGTGCTGCAGAGGATGTGAAGGCCAAGCTTCAC
GAGCTGAACCAAAAGTGGGAGGCACTGAAAGCAAAAGCTTCCAGCGTCGGCAGGACCTGGAGGACTCTCTGCAG
GCCCAGCAGTACTTTGCTGATGCTAACGAGGCTGAATCCTGGATGCGGGAGAAGGAACCCATTGTGGGCAGCACT
GACTATGGCAAGGACGAAGACTCTGCTGAGGCTCTACTGAAGAAACACGAAGCTTTGATGTGAGATCTCAGTGCC
TACGGCAGCAGCATCCAGGCTTTGCGAGAACAAGCACAGTCTGCGGCAACAAGTGGCCCCACGGATGATGAG
ACTGGGAAGGAGCTGGTCTTGGCTCTCTACGACTATCAGGAGAAGAGTCCCCGAGAGGTACCATGAAGAAGGGA
GATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAAGTGGAAAGTGAACGATCGTCAGGGTTTTGTG
CCGGCTGCGTACGTGAAGAAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCCTGGAGGAGCAAGGCAGC
ATAGCACTGCGGCAGGAGCAGATTGACAATCAGACACGCATAACTAAGGAGGCCGGCAGTGTATCTCTGCGTATG
AAGCAGGTGGAAGAACTATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCATGTTGGAGAAGAGTTGC
AAGAAGTTTATGTTGTTCCGTGAAGCGAATGAAGTACAGCAATGGATCAATGAGAAGGAAGCCGCTCTGACAAGT
GAGGAGGTGCGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACTTCCAGAAGGACCTGAAG
GCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAGGTCTTATGGCAGAGGAG

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FIGURE 726B

GTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAACTGATTCCAAGACAGCCTCCCCG
TGGAAGTCTGCTCGTCTGATGGTTTACACCGTGGCCACCTTTAATTCCATCAAGGAGCTGAATGAGCGCTGGCGG
TCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTACAGAGGTTCCACAGAGAT
GCTGATGAAACCAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATTATGGACATGATCTCGCC
AGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCGGTGACAAGGTAACTCC
CTTGGTGAAACAGCAGAGCGCCTGACCCAGTCCCATCCCGAGTCAGCAGAAGACCTGCAGGAAAAGTGCACAGAG
TTAAACCAGGCCTGGAGCAGCCTGGGGAAAACGTGCAGATCAGCGCAAGGCAAAGTTGGGTGACTCCACGACCTG
CAGCGCTTCTTAGCGATTTCCGGGACCTCATGTCTTGATCAATGGAATACGGGGTTGGTGTCTCAGATGAG
CTAGCCAAGGATGTCACCGGAGCTGAGGCATTGCTGGAGCGACACCAGGAACACCGGACAGAAATCGATGCCAGG
GCTGGCACTTTCCAGGCATTTGAGCAGTTTGGACAGCAGCTGTTGGCTCACGGACACTATGCCAGCCCTGAGATC
AAGCAGAAACTTGATATTCTTGACCAGGCGTGCAGACCTGGAGAAGGCCTGGGTTACAGCGCAGGATGATGCTG
GATCAGTGCCTTGAAGTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAAGTGGATGGCTGCCCGGGAGGCC
TTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAAAACATGAAGACTTTGAC
AAAGCGATTAACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTGCCGACCAGCTCATCGCTGCCGGCCAT
TATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTCTGAAAGCCCAGATGATT
GAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCTCCAACAGTTCAGCCGGGATGTGGATGAGATTGAGGCTTGG
ATCAGTGAAAAATTGCAACAGCGAGTGATGAGTCGTACAAGGATCCCACCAACATCCAGAGCAAGCACCAGAAG
CACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCGACATGGGCAACTCCCTC
ATTGAACGTGGAGCCTGTGCCGGCAATGAGGATGCTGTCAAGGCCCGCCTGGCTGCCTTAGCTGACCAGTGGCAA
TTCTTGGTGCAAAAGTCAGCGGAAAAGAGCCAGAACTGAAAGAAGCCAACAAGCAGCAGAACTTCAACACAGGG
ATCAAGGACATTGCATTCTGGCTGTCTGAGGTGGAGGCCCTGTGGCATCCGAAGATTATGGCAAAGACCTGGCT
TCTGTGAACAACCTGCTGAAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATGAGGATCGCCTGAAGGAC
CTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCTTCGACACCTCCCAAGTAAAGGACAAGAGGGACACC
ATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCCTCCCGCGAGCCAAGCTGAATGAATCCCATCGCCTG
CACCAGTTCTTCCGGGACATGGATGACGAGGAGTCTGGATCAAGGAGAAGAAGCTGCTGGTGGGCTCAGAGGAC
TACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGGCTGGAAGCAGAACTGGCTGCGCAT
GAGCCGGCTATTACGGGTGTCTGGACACTGGCAAGAAGCTGTCCGATGACAACACCATCGGGAAAGAGGAGATC
CAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTGCCCGGGTTCAGCGGCTG
GAAGAGTCCTTGAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGATCAATGAGAAAATGACC
CTGGTGGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGAAACATGAAGCTTTTGAG
ACAGCCTTACCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACCTCATTAGAAGAACAAT
CACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAGTGTGAGACCTGGAGAAAGCTGCAGCC
CAGAGAAAGGCGAACGTGGATGAGAACTCGGCCCTTCTTCAAGTTCAACTGGAAGGCGGACGTGGTGGAGTCTTG
ATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTGTGCAGACGCTCCTCACC
AAACAGGAAACTTTTGACGCTGGGCTGCAGGCCCTCCAGCAGGAAGGCATTGCCAACATCACTGCCCTCAAAGAT
CAGCTTCTCGCCGCCAAACACGTTTCAAGTCCAAGGCCATCGAGGCCCGGCACGCCTCCCTCATGAAGAGGTGGAGC
CAGCTTCTGGCCAACCTCAGCCGCCCGCAAGAAGAAGCTTCTGGAGGCTCAGAGTCACTTCCGCAAGGTGGAGGAC
CTCTTCTGACCTTCGCCAAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAAATGCAGAGGAGGACTTAACAGAC
CCCGTGCCTGCAACTCCTTGGAAGAAATCAAAGCTTTGCGCGAGGCCACGACGCCTTCCGCTCCTCCCTCAGC
TCTGCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCCGCGTAGCCTCCAACCCC
TACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCATCAAGGAGAGGGAGCTG
GAGCTGCAGAAGGAACAGCGGCGGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTGCCAGCACGCCAACGCC
TTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCTGTATGGTGAAGAGTCGGGGACCCTC
GAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTCAGCTCAAAAAGATCGAG
GACCTGGGGGCCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACAGCACCCTGGGCCCTCGCC
CAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGCAGATCCAGGCCAGGAAC
ACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTCAGCATGATGTTTAAACACTTTGACAAGGACAAGTCTGGC
AGGCTGAACCATCAGGATGGCAAATCTTGCTGCGCTCCCTGGGCTATGACCTGCCCATGGTGGAGGAAGGGGAA

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FIGURE 726C

CCTGACCCTGAGTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATGTCTCCTTGCAAGAATAC
ATGGCTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGAGCGCCTTCCGGGCCCTC
AGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGGAACAAGCCGACTACTGC
GTCTCCCACATGAAGCCCATCGTGGACGGCAAGGGCCGCGAGCTCCCCA'CCGCGTTCGACTACGTGGAGTTCACC
CGCTCGCTTTTCGTGAACTGAGCCACTCCCTGGGTACCCACCCCTCGCTGCTTGCCCTGCGTCGCCTTGCTGCA
TGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGGAATAAGACTTAGGAGAA
AATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGACCCAGATCTGTGTCTTGA
AGCAGCTGCCCTCATTCCGACTTCAGAAAATCGAAGCAGCTGGCGCCTCCCCTTCGGAATTC

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FIGURE 727

MDPSGVKVLETAEDIQERRQQVLDRYHRFKELSTLRRQKLEDSYRFQFFQRDAEELEKWIQEKLQIASDENYKDP
TNLQGLQKHQAFEAQVQANSQGAIVKLDETNLMISEGHFASETIRTRLMELHRQWELLLEKMREKGIKLLQAQN
LVQYLRECEVDMDWINDKEAIVTSEELGQDLEHVEVLQKKFEEFQTDMAAHEERVNEVNQFAAKLIQEQHPPEEL
IKTKQDEVNAAWQRLKGLALQRQGLFGAAEVQRFNRDVDETISWIKKEQLMASDDFGRDLASVQALLRKHEGL
ERDLAALEDKVKALCAEADRLQSSHPLSATQIQVKREELITNWEQIRTLAAERHARLNDSYRLQRFADFRDLTS
WVTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSADESGQALLAAGHYASDEVREKLTVLSEERA
ALLELWELRRQQYEQCMDLQLFYRDTEQVDNWMQKQEAFLNEDLGDFLDSVEALLKKHEDFEKSLSAQEEKITA
LDEFATKLIQNNHYAMEDVATRRDALLSRNALHERAMRRRAQLADSFHLQQFFRDSDELKSWVNEKMKMTATDEA
YKDPNQLQGVKQKHQAFEAELSANQSRIDALEKAGQKLDVNHYAKDEVAARMNEVISLWKKLLEATELKGIKLR
EANQQQQFNRRVEDIELWLYEVEGHLASDDYGDLTNVQNLQKKHALLEADVAHQDRIDGVTIQAQRFQDAGHF
DAENIKKKQEAQVARYEALKEPMVARKQKQKADSLRLQQLFRDVEDEETWIREKEPIAASNTRGKDLIGVQNLKK
HQALQAEIAGHEPRIKAVTQKGNAMVEEGHFAAEDVKAKLHELNOKWEALKAKASQRRQDLEDLSLQAQQYFADAN
EAESWMREKEPIVGSTDYGDDEDSAEALLKKHEALMSDLSAYGSSIQALREQAQSCRQQVAPTDDDETGKELVLAL
YDYQEKSPREVTMKKGDILTLLNSTNKDWWKVEVNDRQGFVPAAYVKKLDPQASASRENLLLEEQGSIALRQEQID
NQTRITKEAGSVSLRMKQVEELYHSLLELGEKRGKMLEKSCKKFMLFREANELQQWINEKEAALTSEEVGADLEQ
VEVLQKKFDDFQKDLKANESRLKDINKVAEDLESEGLMAEEVQAVQQQEVYGMMPRDETDSTASPWKSARLMVH
TVATFNSIKELNERWRSLLQQLAEERSQLLQSAHEVQRFHRDADETKEWIEKNQALNTDNYGHDLASVQALQRKH
EGFERDLAALGDKVNSLGETAERLTQSHPEAEDLQEKCTELNQAQWSSLGKRADQRKAKLGSDHDLQRFSLDFRD
LMSWINGIRGLVSSDELAKDVTGAEALLERHQEHRTIDARAGTFQAFEQFGQQLLAAGHYASPEIKQKLDILDQ
ERADLEKAWVQRRMMLDQCLELQLFHRDCEQAENWMAAREAFNTEDKGDSDLSVEALIKKHEDFDKAINVQEEK
IAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRRLKAQMIEKRSKLGESQTLQQFSRDVDEIEAWISEKLQATAS
DESYKDPTNIQSKHQKHQAFEAELHANADRIRGVIDMGNSLIERGACAGNEDAVKARLAALADQWQFLVQKSAEK
SQKLKEANKQONFNTGIKDIAFWLSEVEALLASEDYGKDLASVNNLLKKHQLLEADISAHEDRLKDLNSQADSLM
TSSAFDTSQVKDKRDTINGRFQKIKSMAASRRAKLNESHRLHQFFRDMDEESWIKKLLVGSSEYGRDLTGVO
NLRKKHKRLEAELAAHEPAIQGVLDTGKKLSDDNTIGKEEIQORLAQFVEHWKELKQLAAARGORLEESLEYQQF
VANVEEEEAWINEKMTLVASEDYGDTLAAIQGLLKKHEAFETAFTVHKDRVNDVCTNGQDLIKNNHHEENISSK
MKGLNGKVSLEKAAAQRKANVDENSAFLQFNWKADVVEESWIGEKENSLK

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FIGURE 728A

GCCGTGGCTCCGGTAGCAGCAAGTTCGAACCCCGCTCCCGCTCCGTTCTCGCTCCTTCGGCCCTTGGGC
CTCCAAACACCAGTCCCCGGCAGCTCGTTGCGCATTGCGCTCTCCCCGCCACCAGGATGCGCGGTAACCGAGAAGG
ATCTAGCTGAGGACGCGCCTTGGAAGAAGATCCAGCAGAACACGTTACACGCTGGTGCAACGAGCACCTCAAGT
GCGTGAACAAACGCATCGGCAACCTGCAGACCGACCTGAGCGACGGGCTGCGGCTCATCGCGCTGCTCGAGGTGC
TCAGCCAGAAGCGCATGTACCGCAAGTACCATCAGCGGCCACCTTTCCGCAGATGCAGCTCGAGAATGTGTCCG
TGGCGCTCGAGTTCCTGGACCGTGAGAGCATCAAGCTCGTGTCCATCGATAGCAAAGCCATTGTGGATGGGAACC
TGAAGCTCATCTTGGGTCTGGTGTGGACGCTGATCCTCCACTACTCCATCTCCATGCCCCGTGTGGGAGGATGAAG
GGGATGATGATGCCAAGAAGCAGACGCCAAAGCAGAGGCTGCTGGGGTGGATTGAGAACAAGATCCCCTACTTGC
CCATCACCAACTTTAACCAGAACTGGCAAGACGGCAAAGCCCTGGGAGCCCTGGTAGACAGCTGTGCTCCAGGTC
TGTGCCCAGACTGGGAATCCTGGGACCCGCAGAAGCCTGTGGATAATGCACGAGAAGCCATGCAGCAGGCAGATG
ACTGGCTGGGTGTCCACAGGTCATCACTCCTGAAGAAATCATTACCCGGATGTGGACGAGCACTCAGTTATGA
CTTACCTGTCCAGTTCCCCCAAAGCCAAGCTCAAGCCGGGGGCTCCTCTCAAACCCAAACTCAACCCGAAGAAAG
CCAGGGCCTATGGCAGAGGAATCGAGCCCACTGGAAACATGGTGAAGCAGCCAGCCAAGTTCACTGTGGACACCA
TCAGCGCCGGGCAAGGAGACGTGATGGTGTGTTGTTGAGGACCCAGAAGGGAACAAAGAGGAGGCACAAGTGACCC
CTGACAGCGACAAGAACAAGACATACTCTGTGGAGTATCTGCCCAAGGTCACCGGGCTACACAAAGTCACAGTCC
TCTTTGCAGGACAGCACATCTCCAAGAGCCCATTTGAAGTGAGTGTGACAAGGCCCAGGGAGATGCCAGTAAAG
TCACTGCAAAAGGTCCAGGGTTGGAAGCTGTAGGGAACATCGCCAATAAGCCACCTACTTTGACATCTATACGG
CAGGAGCTGGTGTGGGTGACATTGGTGTGGAGGTGGAAGATCCCCAGGGGAAGAACACCGTGAGATTGCTCGTGG
AAGACAAAGGAAACCAGGTGTATCGATGTGTGTACAAACCCATGCAGCCTGGCCCTCACGTGGTCAAGATCTTCT
TTGCTGGGGACACTATTCTTAAGAGTCCCTTCGTTGTGTCAGGTTGGGGAAGCCTGCAATCCAAATGCCTGCCGGG
CCAGTGGCCGAGGCCTACAACCCAAAGGCGTCCGTATCCGGGAGACCACAGATTTCAAGGTTGACACCAAAGCTG
CAGGAAGTGGGGAGCTCGGGGTAACCATGAAGGTCCTAAGGGTCTGGAGGAGCTGGTGAAGCAGAAAGACTTTC
TGGATGGGGTCTACGCATTGAGTATTACCCACGACCCCGGGGAGATACAGCATTGCCATCACATGGGGGGGAC
ACCACATTCCAAAGAGCCCCCTTTGAAGTTCAAGTTGGCCCTGAAGCGGGTATGCAGAAAGTCCGTGCTTGGGGCC
CTGGGCTCCATGGTGGGATTGTGCGGCGGTGTCAGCGGACTTCGTGGTAGAATCCATTGGCTCTGAAGTGGGGTCTC
TGGGGTTTGCCATTGAAGGCCCTCTCAGGCAAAGATTGAGTACAACGACCAGAATGATGGATCGTGTGATGTCA
AATACTGGCCCAAGGAGCCTGGCGAATATGCTGTTACATCATGTGTGACGACGAAGACATCAAGGACAGCCCGT
ACATGGCCTTCATCCACCCAGCCACGGGAGGCTACAACCTGATCTGGTTCGAGCATACGGGCCAGGTTTGGAGA
AATCTGGATGCATTGTCAACAACCTGGCCGAGTTCACTGTGGATCCTAAGGATGCTGGAAAAGCTCCCTTAAAGA
TATTTGCTCAGGATGGGGAAGGCCAACGCATTGACATCCAGATGAAGAACCGGATGGACGGGCACATATGCATGCT
CATAACCCCGGTGAAGGCCATCAAGCACACCATTGCTGTGGTCTGGGGAGGCGTGAACATCCCGCACAGCCCCCT
ACAGGGTCAACATCGGGCAAGGTAGCCATCCTCAGAAGGTCAAAGTGTTTGGGCCAGGTGTGGAGAGAAGTGGTC
TGAAGGCAAATGAACCTACACACTTCACGGTGGACTGTACTGAGGCTGGGGAAGGTGATGTCAGTGTGTCATT
AGTGTGATGCCCCGGGTGTTAAGTGAAGATGAGGAAGACGTGGATTTTGACATTATTACAAATGCCAATGATACGT
TCACAGTCAAATATGTGCTCCTGCTGCTGGGCGATACACTATCAAAGTTCTCTTTGCATCTCAGGAAATCCCCG
CCAGCCCTTTCAGAGTCAAAGTTGACCCTTCCACGATGCCAGCAAAGTGAAGGCAGAAGGCCAGGGCTCAGCA
AAGCAGGTGTGGAAAATGGGAAAACCGACCCACTTCACTGTCTACACCAAGGGGGCTGGGAAAAGCCCCGCTCAACG
TGCAGTTCAACAGCCCTCTTCTGCGCATGCAGTGAAGGATTTGGATATCATCGATAATTATGACTACTCTCACA
CGGTTAAATATACACCCACCCAAACAGGGCAACATGCAGGTTCTGGTGACTTACGGTGGCGATCCCATCCCTAAAA
GCCCTTTCACTGTGGGTGTTGCTGCACCGCTGGATCTGAGCAAGATAAACTCAATGGGCTGGAAAACAGGGTGG
AAGTTGGGAAGGATCAGGAGTTACCGTTGATACCAGGGGGGAGGAGGCCAGGGGAAGCTGGACGTGACAATCC
TCAGCCCCCTCTCGGAAGGTCGTGCCATGCCATAGTGACACCTGTGACAGGCCGGGAGAACAGCACGGCCAAGTTCA
TCCCTCGGGAGGAGGGGCTGTATGCTGTAGACGTGACCTACGATGGACACCCTGTGCCCGGGAGCCCCCTACACAG
TGGAGGCCTCGCTGCCACCAGATCCCAGCAAGGTGAAGGCCACGGTCCCGGCTCGAAGGTGGTCTCGTGGGCA
AGCCTGCCGAGTTACCATCGATACCAAAGGAGCTGGTACTGGAGGTCTGGGCTTAACGGTGAAGGTCCGTGCG
AGGCCAAAATCGAGTGCTCCGACAAATGGTGTGGGACCTGCTCCGTCTCTTACCTTCCACAAAAACCGGGGAGT
ACTTCGTCAACATCCTCTTTGAAGAAGTCCACATACCTGGGTCTCCCTTCAAAGCTGACATTGAAATGCCCTTTG
ACCCCTCTAAAGTCGTGGCATCGGGGCCAGGTCTCGAGCACGGGAAGGTGGGTGAAGCTGGCCTCCTTAGCGTCA

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FIGURE 728B

ACTGCTCGGAAGCGGGACCGGGGGCCCTGGGCCTGGAAGCTGTCTCGGACTCGGGAACAAAAGCCGAAGTCAGTA
TTCAGAACAACAAAGATGGCACCTACGCGGTGACCTACGTGCCCCCTGACGGCCGGCATGTACACGTTGACCATGA
AGTATGGTGGCGAACTCGTGCCACACTTCCCCGCCCGGGTCAAGGTGGAGCCCGCGTGGACACCAGCAGGATCA
AAGTCTTTGGACCAGGAATAGAAGGGAAAAGATGTGTTCCGGGAAGCTACCACCGACTTTACAGTTGACTCTCGGC
CGCTGACCCAGGTTGGGGGTGACCACATCAAGGCCACATTGCCAACCCCTCAGGGGCCTCCACCGAGTGCTTTG
TCACAGACAATGCGGATGGGACCTACCAGGTGGAATACACACCCTTTGAGAAAGGTCTCCATGTAGTGAGGTGA
CATATGATGACGTGCCTATCCCAAACAGTCCCTTCAAGGTGGCTGTCACTGAAGGCTGCCAGCCATCTAGGGTGC
AAGCCCAAGGACCTGGATTGAAAAGAGGCCCTTTACCAACAAGCCCAATGTCTTACCCTGGTTACCAGAGGCGCAG
GAATTGGTGGGCTTGGCATAACTGTTGAGGGACCATCAGAGTGAAGATAAATTGCAGAGACAACAAGGATGGCA
GCTGCAGTGCTGAGTACATTCTTTTCGCGCCGGGGGATTACGATGTTAATATCACATATGGAGGAGCCACATCC
CTGGCAGCCCCCTTCAGGGTTCTCTGTGAAGGATGTTGTGGACCCAGCAAGGTCAAGATTGCCGGCCCCGGGCTGG
GCTCAGGCGTCCGAGCCCGTGTCTGTCAGTCCCTTACCGGTGGACAGCAGCAAGGCTGGCCTGGCTCCGCTGGAAG
TGAGGGTTCTGGGCCCACGAGGCTTGGTGGAGCCAGTGAACATGGTGGACAATGGAGATGGCACACACACAGTAA
CCTACACCCCATCTCAGGAGGGACCTTACATGGTCTCAGTTAAATATGCTGATGAAGAGATTCTCTGCAGTCCCT
TCAAGGTCAAGGTCTTCCACATATGATGCCAGCAAAGTGACTGCCAGTGGCCCCGGCCTTAGTTCCTATGGTG
TGCTTGCAGTCTACCTGTGGACTTTGCAATTGATGCCCGAGATGCCGGGGAAGGCCTGCTTGCTGTTCAAATAA
CGGACCAAGAAGGAAAACCCAAAAGAGCCATTGTCCATGACAATAAAGATGGCACGTATGCTGTACCTACATCC
CCGACAAGACTGGGCGCTATATGATTGGAGTCACCTACGGGGGTGACGACATCCCACTTTCTCCTTATCGCATCC
GAGCCACACAGACGGGTGATGCCAGCAAGTGCTGGCCACGGGTCTGGAATCGCCTCCACTGTGAAAACCTGGCG
AAGAAGTAGGCTTTGTGGTTGATGCCAAGACTGCCGGGAAGGGTAAAGTGACCTGCACGGTTCTGACCCAGATG
GCACTGAGGCCGAGGCCGATGTCAATTGAGAATGAAGATGGAACCTATGACATCTTCTACACAGCTGCCAAGCCGG
GCACATATGTGATCTATGTGCGCTTCGGTGGTGTGATATTCTTAACAGCCCTTCACTGTGATGGCCACAGATG
GGGAAGTCACAGCCGTGGAGGAGGCACCGGTAAATGCATGTCCCCCTGGATTACAGGCCCTGGGTGACCGAAGAGG
CCTATGTCCCAGTGAGTGACATGAACGGCCTGGGATTTAAGCCTTTTGACCTGGTCATTCCGTTTGCTGTGAGGA
AAGGAGAAATCACTGGAGAGGTCCACATGCCTTCTGGGAAGACAGCCACACCTGAGATTGTGGACAACAAGGACG
GCACGGTCACTGTTAGATATGCCCCCACTGAGGTGCGGCTCCATGAGATGCACATCAAATACATGGGCAGCCACA
TCCCTGAGAGCCCACTCCAGTTCTACGTGAACCTACCCCAACAGTGGAAGTGTTTTCTGCATACGGTCCAGGCCCTCG
TGTATGGAGTGGCCAACAAAACCTGCCACCTTACCATCGTCACAGAGGATGCAGGAGAAGGTGGTCTGGACTTGG
CTATTGAGGGCCCCCTCAAAGCAGAAATCAGCTGCATTGACAATAAAGATGGGACATGCACAGTGACCTACCTGC
CGACTCTGCCAGGCGACTACAGCATTCTGGTCAAGTACAATGACAAGCACATCCCTGGCAGCCCCCTTACAGCCA
AGATCACAGATGACAGCAGGCGGTGCTCCCAGGTGAAGTTGGGCTCAGCCGCTGACTTCTGCTCGACATCAGTG
AGACTGACCTCAGCAGCCTGACGGCCAGCATTAAAGGCCCATCTGGCCGAGACGAGCCCTGTCTCCTGAAGAGGC
TGCCCAACAACCACATTGGCATCTCCTTCATCCCCGGGAAGTGGGCGAACATCTGGTCAGCATCAAGAAAAATG
GCAACCATGTGGCCAACAGCCCCGTGTCTATCATGGTGGTCCAGTCCGAGATTGGTGACGCCCGCCGAGCCAAAG
TCTATGGCCGCGGCTGTGAGAAGGCCGGACTTTTCGAGATGTCTGACTTCATCGTGGACACAAGGGATGCAGGTT
ATGGTGGCATATCCTTGGCGGTGGAAGGCCCCAGCAAAGTGGACATCCAGACGGAGGACCTGGAAGATGGCACCT
GCAAAGTCTCCTACTTCCCTACCGTGCCTGGGGTTTATATCGTCTCCACCAAATTGCTGACGAGCACGTGCCTG
GGAGCCCATTACCGTGAAGATCAGTGGGGAGGGAAGAGTCAAAGAGAGCATCACCCGCACAGTCGGGCCCGGT
CCGTGGCCACTGTGCGGAGCATTGTGACCTGAACCTGAAAATCCAGAAATCAACAGCAGTGATATGTGCGCCC
ACGTACACAGCCCCCTCTGGCCGTGTGACTGAGGCAGAGATTGTGCCCATGGGGAAGAACTCACACTGCGTCCGGT
TTGTGCCCCAGGAGATGGGCGTGACACGGTCAGCGTCAAGTACCGTGGGCAGCACGTACCGGCAGCCCCCTTCC
AGTTACCGTGGGGCCACTTGGTGAAGGAGGCGCCACAAGGTGCGGGCAGGAGGCCCTGGCCTGGAGAGAGGAG
AAGCGGGAGTCCCAGCTGAGTTACGATTGGACCCGGGAAGCAGGCGCTGGAGGCCTCTCCATCGCTGTTGAGG
GCCCCAGTAAGGCCGAGATTACATTGATGACCATAAAAATGGGTGCTGCGGTGTATCTTATATTGCCCAAGAGC
CTGGTAACCTACGAGGTGTCCATCAAGTTCAATGATGAGCACATCCCGGAAAGCCCTACCTGGTGCCGGTTCATCG
CACCTCCGACGACGCCCCGCCCTCACTGTTATGAGCCTTCAAGGAATCGGGATTAAAAGTTAACCAGCCAGCAT
CCTTTGCTATAAGGTTGAATGGCGCAAAGGCAAGATTGATGCAAAGGTGCACAGCCCTCTGGAGCCGTGGAGG
AGTGCCACGTGTCTGAGCTGGAGCCAGATAAGTATGCTGTTGCTTCATCCCTCATGAGAAATGGTGTCCACACCA

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FIGURE 728C

TCGATGTCAAGTTCAATGGGAGCCACGTGGTTGGAAGCCCCCTTCAAAGTGC GCGTTGGGGAGCCTGGACAAGCGG
GGAACCCCTGCCCTGGTGTCCGCCTATGGCACGGGACTCGAAGGGGGCACCACAGGTATCCAGTCGGAATTCTTTA
TTAACACCACCCGAGCAGGTCCAGGGACATTATCCGTCACCATCGAAGGCCCATCCAAGGTTAAATGGATTGCC
AGGAAACACCTGAAGGGTACAAAGTCATGTACACCCCCATGGCTCCTGGTAACTACCTGATCAGTGTCAAATACG
GTGGGCCCCAACCACATCGTGGGCAGTCCCTTCAAGGCCAAGGTGACAGGCCAGCGTCTAGTTAGCCCTGGCTCAG
CCAACGAGACCTCATCCATCCTGGTGGAGTCAGTGACCAGGTCTGTCTACAGAGACCTGCTATAGCGCCATTCCCA
AGGCATCCTCGGACGCCAGCAAGGTGACCTCTAAGGGGGCAGGGCTCTCAAAGGCCTTTGTGGGCCAGAAGAGTT
CCTTCCTGGTGGACTGCAGCAAAGCTGGCTCCAACATGCTGCTGATCGGGGTCCATGGGCCCACCACCCCTGCG
AGGAGGTCTCCATGAAGCATGTAGGCAACCAGCAATACAACGTCACATACGTCGTCAGGAGAGGGGCGATTATG
TGCTGGCTGTGAAGTGGGGGGAGGAACACATCCCTGGCAGCCCTTTTCATGTACAGTGCCTTAAACAGTTTTTC
TCAAATCCTGGAGAGAGTTCTTGTGGTTGCTTTTGTGCTTGTGTTGTAATTCATTTTATACAAAGCCCTCCAGCC
TGTTTGTGGGGCTGAAACCCCATCCCTAAATATTGCTGTTGTAAATGCCTTCAGAAATAAGTCCTAGACTGGA
CTCTTGAGGGACATATTGGAGAATCTTAAGAAATGCAAGCTTGTTTCAGGGGGCTGAGAAGATCCTGAGTACACTA
GGTGCAAACCAGAACTCTTGGTGGAACAGACCAGCCACTGCAGCAGACAGACCAGGAACACAATGAGACTGACAT
TTCAAAAAAACAAACTGGCTAGCCTGAGCTGCTGGTTCACTCTTCAGCATTTATGAAACAAGGCTAGGGGAAGA
TGGGCAGAGAAAAAGGGGACACCTAGTTTGGTTGTCATTTGGCAAAGGAGATGACTTAAATCCGCTTAATCTCT
TCCAGTGTCCGTGTTAATGTATTTGGCTATTAGATCACTAGCACTGCTTTACCGCTCCTCATCGCCAACACCCCC
ATGCTCTGTGGCCTTCTTACACTTCTCAGAGGGCAGAGTGGCAGCCGGGCACCCTACAGAACTCAGAGGGCAGA
GTGGCAGCCAGGCCCACATGTCTCTCAAGTACCTGTCCCTCGCTCTGGTGATTATTTCTTGCAAGATCACCACA
CGAGACCATCCCGGCAGTCATGGTTTTGCTTTAGTTTTCCAAGTCCGTTTCAGTCCCTTCCTTGGTCTGAAGAAA
TTCTGCAGTGGCGAGCAGTTTCCCACTTGCCAAAGATCCCTTTTAACCAACACTAGCCCTTGTTTTTAACACACG
CTCCAGCCCTTCATCAGCCTGGGCAGTCTTACCAAAATGTTTAAAGTGATCTCAGAGGGGGCCCATGGATTAACGC
CCTCATCCCAAGGTCCGTCCCATGACATAACACTCCACACCCGCCCCAGCCAACCTTCATGGGTCACTTTTTCTGG
AAAATAATGATCTGTACAGACAGGACAGAATGAACTCCTGCGGCTCTTTGGCCTGAAAGTTGGGAATGGTTGGG
GGAGAGAAGGGCAGCAGCTTATTGGTGGTCTTTTCACCATTTGGCAGAAACAGTGAGAGCTGTGTGGTGCAGAAAT
CCAGAAATGAGGTGTAGGGAATTTTGCTGCCTTCCTGCAGACCTGAGCTGGCTTTGGAATGAGGTTAAAGTGTC
AGGGACGTTGCCTGAGCCCCAAATGTGTAGTGTGGTCTGGGCAGGCAGACCTTTAGGTTTTGCTGCTTAGTCCTGA
GGAAGTGGCCACTCTTGTGGCAGGTGTAGTATCTGGGGCAGTGTGGGGGTAAAGGCCACCCCTACAGAAAGTG
GAACAGCCCGGACCTGATGTGAAAGGACCACGGGTGTTGTAAGCTGGGACCGGAACCAAACTGGAATCAAACGCG
ACTGTAAATTGTATCTTATAACTTATTAAATAAAACATTGCTCCGTAAAAA

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FIGURE 729

MPVTEKDLAEDAPWKKIQONTFTTRWCNEHLKCVNKRIGNLQTDLS DGLRLIALLEVL SQRMYRKYHQRPTFROM
QLENVSVALEFLDRESIKLVSIDSKAIVDGNLKLILGLVWTLILHYSISMPVWEDEGDDDAKKQTPKQRLLGWIQ
NKIPYLPITNFNQNWQDGKALGALVDS CAPGLCPDWESWDPQKPVDNAREAMQQADDWLGV PQVITPEEIIHPDV
DEHSVMTYLSQFPKAKLKPGAPLKPKLNPKKARAYGRGIEPTGNMVKQPAKFTVDTISAGQGDVMVFVEDPEGNK
EEAQVTPDSDKNKTY SVEYLPKVTGLHKVTVLFAQGHISKSPFEVSVDKAQGDASKVTAKGPGLEAVGNIANKPT
YFDIYTAGAGVGDIGVEVEDPQGKNTVELLVEDKGNQVYRCVYKPMQPGPHVVKIFFAGDTIPKSPFVVQVGEAC
NPNACRASGRGLQPKGVRIRETTFKVDTKAAGSGELGVTMKGPKGLEELVKQKDFLDGVYAFEYYPSTPGRYSI
AITWGGHHIPKSPFEVQVGPEAGMQKVRWGPGLHGGIVGRSADFVVE SIGSEVGS LGFAIEGPSQAKIEYNDQN
DGSCDVKYWPKEPGEYAVHIMCDDEDIKDSPYMAFIHPATGGYNPD LVRAYGPGLEKSGCIVNNLAEFTVDPKDA
GKAPLKIFAQDGEQGRIDIQMKNRMDGTIYACSYTPVKAIKHTIAVVGGVNIPHSPYRVNIGQSGHPQKV KVF GP
GVERSGLKANEPHTFTVDCTEAGEGDVSVGIKCDARVLSEDEEDVD FDI IHNANDTFTVKYVPPAAGRYTIKVL F
ASQEIPASPFVRVKVDP SHDASKVKAEGPGLSKAGVENGKPTHTFTVYTKGAGKAPLNQVFN SPLPGDAVKDLDIID
NYDYSHTVKYTP TQQGNMQVLVTYGGDPIPKSPFTVGVAAPLDLSKIKLNGLENRVEVGKDQEF TVDTRGAGGQG
KLDVTILSPSRKVVPCLVTPVTGRENSTAKFIPREEGLYAVDVTYDGHVPVPGSPYTVEASLPDP SKVKAHGPGL
EGGLVGKPAEFTIDTKGAGTGGLGLTVEGPCEAKIECSDNGDGTCSVSYLPTKPGEYFVNILFEEVHIPGSPFKA
DIEMPFDPSKVVASGPGLEHGKVGEAGLLSVNCSEAGPGALGLEAVSDSGTKAEVSIQNNKDGTYAVTYVPLTAG
MYTLTMKYGGELVPHFPARVKVEPAVDTSRIKVFGPGIEGKDVFREATTDF TVDSRPLTQVGGDHIAHIANPSG
ASTECFVDNADGT YQVEYTPFEKGLHVVEVTYDDVP IPNSPFKVAVTEGCQPSRVQAQGPGLKEAFTNKPNVFT
VVTRGAGIGGLGITVEGPSESKINCRDNKDGSCSAEYIPFAPGDYDVNITYGGAHIPGSPFRVPVKDVVDP SKVK
IAGPGLGSGVRARVLQSFTVDSSKAGLAPLEVRVLGPRGLVEPVNMVDNGDGTHTVYTPSQEGPYMVS VKYADE
EIPRSPFKVKVLPTYDASKVTASGPGLSSYGVPASLPVDF AIDARDAGEGLLAVQITDQEGKPKRAIVHDNKDGT
YAVTYIPDKTGRYMIGVTYGGDDIPLSPYRIRATQTGDASKCLATGPGIASTVKTGEEVGFVVDAKTAGKGKVT C
TVLTPDGTEAEADVIENEDGT YDIFYTAAKPGTYVIYVREGGVDIPNSPFTVMATDGEVTAVEEAPVNACPPGFR
PWVTEEAYVPVSDMNGLGFKPFDLVIPFAVRKGEITGEVHMPSGKTATPEIVDNKDGTVTVRYAPTEVGLHEMHI
KYMGSHPESPLQFYVNYPNSGVSAYGPGLVYGVANKTATFTIVTEDAGEGGLDLAIEGPSKAEISCIDNKDGT
CTVYTLPTLPGDYSILVKYNDKHIPGSPFTAKITDSDRRCSQVKLGSAADFLLDISETDLSSLTASIKAPSGRDE
PCLLRPNNHIGISFIPREVGEHLVSIKKNGNHVANS PVSIMVVQSEIG

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FIGURE 730A

CTGAACTAGTTGCCAGTGATCTTGAAACGTGACAGTAACCAAGAGATAAATAGGTGACAATGACAGGAAAATTAG
ATGTAGTAAAAGAGAGTGTGTTGAGAGCAGAAGCTATGGCAACTAAAGACTGGATTTGAATCCTTCCTAGCTTGGT
GACATGAGCAAATTACTTGATTAAAGTGAGCATTTCCTCATCTGTACAGTGGAGATAACGATAATTGTGCCTGCT
AAGAAGAATTGCTGTGAAGATTAGTGAAATAATGCATGTAAAACATTTGGTACAGTATGTGACACATAGTACAAA
TAGTTTGCTAGGAAGATTGTTATTATTCTTCACCTGTGATATTGTGAAGTTTTATACAGCAAATTGGACATCAT
GAGATGGATTGATTAAATAAATAGATTTGAACTTCAAGGACTGGTAGTGTTCTTGCTTTGGAAAGAAGAACTTG
GTTTATCCTAATAATAGTAGGATAAATAATGGTGAAGTGATAGGTACAAGTAATAGTGTGTTATGATGCGCTGGTGA
TGATAGGAAAAGAAAGCCATTATATGGGCAAGAGCTAGAAGTAATAAAATGGTGCATTTTTTCAGTGATGTTTGGC
CTATGTAGCTATTCTCTGATAACTATAAAAAATCCTTATTATTGAAGATTCTTCAGGAAAAAAAACCCCTTAGTCT
GAAACCTTAGCACCAATCCCCCTTGCCCCCATTGAAATACGTATTTTTTAAACATGGCTTTTGATAATGTGAGG
GTTTTTTCCTTTTTGCGATTTAGCAGTGCTGATTGTGATTGCAGTAGTTGTGAGAGCATTAGAAGCAGCAGTCG
ATAGGAGGATGGAAGGTCTGGATGCCGCTTGCGGAGTTAGGAGATTGGCAGACTTACCCTGTACCACTCTAGCC
CTACTCCTTTGCCCAAGACAGAAACACACTGAGATGGATAGGAGAATATGAGCAGTTGATAGGAAAGTTCTCAGT
GGAGTCAGGATTTAGGTTAGGCCAGGAGATTGAGAATATAACAGTTTGTGTATGATGAAATGGCATATTTACAG
AATGCAGTAAAAGCAGGTAGGGTACAAGTGACAGCAACAGGAAGATGTCTTTTCTTCATTACAGCAAACACTTATT
GAGAGCTTACCATGTGCTAGGCACATACAAAGATAAATAAGATGCCCTTGATGATCCTCTATTTAAAGGAGACAT
GTAAACAGGTTAACTTAGAGTAGAGATGGTGAATATGTGAACCTGAGGAAAGGAAGAAATAGATTAAATTATCTG
GAGAGAGAGGAAAAGTCAGCAGAATGGGGACGAGAATCTTCGGAGCTCAGTGTTCTGATAGGAGTTATTTCTT
GGGCATAGGTTCCAAGTATTTTTCTAATATACCATAGAAGCCAGGAAAACCTTTCTTCTGTTATCTCAAATGATTT
AATTACTGACTTGAGTTTGTGTTGTCTCCTTAGACTTGTGCACCATGGACAATTTTGCTGAGGGAGATTTCACTG
TGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGGATGATTGTGTCTTTGCTGCTGAATTTATGAGCAATG
ATTATGTTTCGTGTGACTCAGCTTTACTGTGATGGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGA
ATTTGGAATTTGACATCTGCAGTATATGGTGTAGTAAACCAATTTCTGTCTCTGCAAGATTATTGCGATGCCATTA
AAATAAACATCTTCTGGCCACTTCTGTTTCAACATCAAAACAGTTCCGTAATATCACGATTGCATCCCTGTGTGG
ACGCCAACAAATTCACGTGCTTCTGAGATAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGG
ATTTGGCAAAGAAAGTTGCTAATGATTCATTCTTATTGGAGGCTTATTGAGAATTGGTTGTAAAATAGAAAAATA
AAATCTTGGCAATGGAAGAAGCTCTGAATTGGATAAAATATGCAGGCGATGTAACAATTCTAACTAAATTAGGAT
CAATTGACAATTGTTGGCCTATGTTAAGTATTTTCTTTACTGAATACAAGTACCACATAACTAAAAATTGTAATGG
AAGACTGCAATTTGCTTGAAGAACTTAAACTCAAAGTTGTATGGATTGTATAGAGGAAGGAGAACTAATGAAAA
TGAAAGGAAATGAAGAGTTTTTCCAAAGAAAGATTTGATATAGCTATTATCTATTACACCAGAGCCATTGAATATA
GACCTGAAAACTACCTTCTTTATGGTAACCGAGCTCTTTGTTTTCTTCGTACTGGACAGTTTAGAAATGCACTCG
GTGATGGAAAGAGAGCCACTATTCTGAAGAACACTTGGCCAAAGGGTCATTATCGTTATTGTGATGCTCTTTCTA
TGCTGGGGGAATATGACTGGGGCCCTGCAAGCAAACATAAAAGCTCAAAAACCTCTGTAAAAATGACCCTGAGGGAA
TCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAACAAATAGAAGACCTACAAGGTGCAACAGCAAATAAGG
ATCCAATTAAGCCTTTTATGAAAACAGGGCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCAC
TTAACCTTTGTGGAGAAGGAAAGAGATTTTCAGAAAAATTAATCACGAAATGGCCAACGGTGGTAATCAGAACTAA
AGGTGGCGGATGAGGCGTTGAAGGTAGATGATTGTGACTGTCATCCTGAATTTTACCACCATCAAGTCAGCCTC
CAAAACATAAAGGAAAACAAAAATCTCGAAACAATGAATCAGAAAAGTTTCAAGTTCTAGTTTACCATTGACTTTAC
CAGCAGATTTGAAGAACATCTTGAGAAAACAGTTTTCTAAATCTTCAGAGCTGCACACCAGGATTTTGCTAATA
TAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGAGCGCTGCAC
AGGCCTTTACAGAGTTGCTGAACGTTTAGATCCTCAAAAAATAAAGCAATTGAACCTGGCCATGATTAACCTATG
TTTTGGTCGTCTATGGACTTGCCATTTCTCTCCTTGGAAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAACC
AGTTTAAGAGGATTATTGAACACTACCCCAAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGAAAAAGTGT
ATTTGAAAAAAAACAGATTTCTAGAAGCTCTCAATCACTTTGAGAAAGCAAGAACCTTGATTTATCGTCTTCCTG
GAGTGTTAACTTGGCCCACGAGTAATGTGATTATTGAAGAGTCTCAGCCACAAAAAATAAAGATGCTGTAGAGA
AATTTGTTGAAGAATGCAAGTTCCCTCCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTA
AGATCCAGATATACATACTGATCCAGACTTTAAGGGTTTTATACGCATCAGCTGTTGCCAGTACTGTAAAAATAG
AATTTACATGAATTGCTGGAAGAAGTTAAAACTACAACCTTTAATGATAAAATTGACAAGGATTTTCTACAAG

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FIGURE 730B

GAATATGTCTTACCCCTGACTGTGAAGGTGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAAT
GTGAATTTGAACACAAGGTCATAAAAGAAAAGGTTCTCCAGACCTATTCTGAAACAGAAATGTTCTAGCCTAG
AGAACTAAGACTGAAAGAAGACAAAAAATTGAAGAGAAAAGATCCAAAAAAGAAGCAAAAAAGTTAGCACAAAG
AAAGAATGGAGGAGGACTTAAGAGAAAAGTAATCCACCCAAAAATGAAGAGCAGAAAGAACTGTAGACAATGTTT
AGCGTTGTCAGTTCTTGATGACAGAATTCTACAGTGTATAAAGCAGTATGCTGACAAGATTAAATCCGGCATA
AGAATACAGCCATGCTTCTCAAAGAATTGCTTTCTTGAAAAGTTTTGAGCACAGAAGACTATACAACCTGTTTTT
CTAGCAGAAATTTCTAAATGAAGCAGTGGACTATGTTATTGCGCCACTTGATTCAAGAAAATAACAGAGTAAAGA
CAAGAATATTTCTGCATGTTTTGAGTGAGCTTAAAGAAGTGGAGCCCAAATTAGCCGCCTGGATCCAAAACTTA
ATAGCTTTGGCTTAGATGCCACAGGAACCTTTCTTTCTCGTTATGGAGCATCTCTTAACTGCTTGATTTTAGTA
TCATGACTTTCTCTGGAATGAGAAATATGGTCACAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTTCT
CTGAGCCAGCATCATTGAAGGAAGCCCGTTGTTAATATGGCTGCTAGAAGAACACAGAGACAAGTTCCCAGCAT
TGCATAGTGCTTTAGATGAATTTCTTGATATAATGGACAGCCGCTGTACTGTGTTAAGGAAACAAGATAGTGGTG
AAGCACCGTTTTAGTTCAACCAAGGTGAAAAACAAAAGCAAGAAAAAGAAGCCAAAGGATTCAAAGCCTATGTTAG
TTGGGTCTGGAACAACCTTCAGTAACTTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAATCGAAATT
CAGATTCTGCAGGCCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAATTCGAAGCTCTCTATGACC
AACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAACAAAAATGTTCAACTCTAT
ATGATTACTTCTCTCAGTTTTTGGAGGAACATGGTCCCTTGGACATGAGTAACAAGATGTTCTCTGCAGAAATATG
AGTTTTTCCCAGAAGAACTCGACAGATACTAGAAAAAGCAGGAGGTTTAAACCTTTTCTCTTGGGATGCCCTC
GTTTTGTTGTGATTGACAACCTGTATTGCACTGAAGAAGGTTGCATCACGGCTCAAGAAAAAAGGAAGAAGAAAA
ACATTAACAAAGTAGAAGAAATTTCAAAAGCAGGGGAGTATGTACGAGTTAACTACAACCTGAATCCAGCTG
CTAGGGAATTTAAACCAGATGTAAAGTCTAAACCAGTGTGAGATTATCTTCAGCACCAGCTTTTGAAAATGTGA
AACCCAAACCTGTGTCTGCAAATTTCTCCCAAGCCAGCTTGTGAAGATGTGAAGGCCAAACCAGTATCCGACAATT
CTTCTAGACAAGTTTTCTGAGGATGGGCAACCCAAAGGGGTCTCTTCTAATTCTCCTAAACCAGGCTCTGAGGATG
CAAATTACAAGCGAGTCTCCTGTAATTTCCCCAAACCGGTTCTTGAGGATGTGAAACCAACTTATTGGGCTCAAT
CCCATTGGTTCACAGGATACTGTACGTATCTTCCTTTCCAGAGATTGATATCACCCAGACACCGCCAGCATACA
TAAACGTGTTACCAGGTTTTGCCCCAGTACACCAGCATATATACACCCTTGCCAGCCTTTTCTCCTGAATATCAGC
TACCAAGATCAGTACCAGTGGTGCCGTCTTTTGTAGCCAATGACAGAGCAGATAAAAATGCTGCTGCCTATTTTG
AGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTCAACAGATTGCCTCTGAAACACAGATCCTTGAGGGCTCTT
TGGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATAAGTCTGAGTGAATCAACAGAAATGATG
AGCACTGTGGAAATTTCTAACAACAAATGTGAAGTAATTCAGAAAGCACCAGTGCAGTAACAACATTCCACAG
TGCAGATGGTTGCCATACAGGTATCTTGGAAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTG
AGGAACGACAAGGGGAAATTTACGGATTGAAAAGGAGCACCAAGTATTACAAGACCAACTTCAAGAAGTGTATG
AAAATTATGAGCAGATAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAGTTGAAAAGGCACTTAG
AAGAAAACAAGATCTCAAAGACGGAATTAGATTGGTTCTTCAAGATTTGGAAGAGAAATTAAGAAATGGCAAC
AGGAAAAAAGAAATCCAAGAAAGACTAAAACTACTGAAGAAGAAATTAAGAAAGGTTTCAAATGCCAGTGAAA
TGTATACCCAGAAAAATGATGGAAAGGAAAGGAACATGAATTACATCTGGATCAGTCCCTTGAAATCAGCAACA
CACTTACAAATGAGAAAAATGAAAATAGAAGAGTATATAAGAAAGGGAAAGAGGATTATGAAGAGAGTCATCAGA
GAGCTGTGGCTGCAGAGGTATCCGTACTTGAAAACCTGGAAGGAGAGTGAAGTGTATAAGCTACAGATCATGGAGT
CACAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCATATCCTGACATGGAGTCTG
ATATACGTTTCATGGGAATTGTTTCTTTCTAATGTTACAAAAGAAATTGAGAAAGCAAAGTCTCAGTTTGAAGAAC
AAATTAAGGCAATTAAAAATGGTTCTCGGCTCAGTGAACCTTTCTAAAGTGCAGATTTCTGAGCTTTCAATTCCTG
CCTGTAACACGGTTTCATCCCGAGTTACTCCCTGAGTCTTCAGGCCACGATGGCCAAGGGCTTGTGACTTCTGCAA
GCGACGTGACTGGAACACACGAGCACTTCACAGGGATCCTAGTGTGTTCTCTGCTGGTGAATCCCCAGGGGAGG
CTCCTTCTGCGCTGTTGCCAGGGCCACCCCTGGTCAAGCCACTCAGCTGACAGGGCCAAAACGGGGCTG
GCCAGGCAGCTCTGTGAGAACGAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTCTCCAGGACGTGCTGCGCGTT
CAAGCCAGTCTCCAAAAAGCCGTTCAATAGTATTATTGAGCACCTGTGAGTGGTATTTCCCATGTTACAACAGCA
CTGAGCTTGCTGGTTTTATTAAAAAAGTGCGAAGCAAAAACAAGAACTCACTCTCAGGATTGAGTATTGATGAAA
TTGTCCAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAAGCCAAACCCAGGAAAGGACAAGAGGA

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FIGURE 730C

CTTATGAGCCCAGCTCTGCCACCCCGTGACCAGGTCCTCCAGGGCTCACCTCGGTGGTTGTTGCACCATCAC
CCAAAACCAAGGGGCAGAAAGCAGAAGATGTCCCTGTGAGGATTGCACTGGGTGCAAGTTCCTGTGAAATATGCC
ACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAAGGGTGCTTTAAGCAGT
GGCTTAAAGGGCAGAGCGCTTGCCCGGCCTGCCAGGGTCGTGATCTCCTGACAGAAGAGTCACCTTCTGGAAGAG
GCTGGCCAGTCAGAATCAGGAGCTGCCTTCCTGCTCTTCTAGGTAGTCACACTTCACTAAAGTGTCAATCCACCA
GTGTGTTGAATCCGAAGAATGACAATTTTCTACCACTGGTGTAAAAAACAAACATTTGAAGACCCCTTGTGCATTG
TGTGTACAAAGCTAAATACATGGAAATCGTTAATATCGCTGATATTAAGTAATTTCCCACTCTGAGTGAATAC
TTTGATGATTGCCAACAGTGGCTAATAAAATGACGGCTACCACACTCATGGGTCACTGGGGCTGCGCAGGGCTCT
TTGAGGTGGGTGGCTTCTTTTGGAAAGTACTATGAACGTCTCGAAGCAGTATTCTAGTGATAAGAATTCTTAACA
TAGCCAAGCGCCCCACGTTTGTTCACGTTTGTTCCTTTTCTGTTTGAAAAACCTGTTCTGGTAGCTCCAC
AAGAGAGATGATACTGACTTTTTAAATTTTTTACAAGAGTCTGTATTCTGATATGCCTATATTTTTCTCAAAG
ATTCTGCATTTTAAGGATGGGCATAAGCAAACCTATATTTTAATAATTTATAGTTAATGTTAAATATTGGCTGAT
TTAGACCAAAAGATTCAAATCTCCTCTTTGTGAAATCCCATCTGCATTTGATTTTTTATTATTTTATGTTCCCC
GTTAGATTGTTTTAAGTGTGTTCCTTTTATAGATGTAATCTGATTTTCAAAAATCATTAACACTTTTT
AATTAGTATCGACTAAGACTTTTTCCCCCTGGAATCGAGGCTGTGTGTCCGTCATCCCAGCCCCCGGTGGAGCC
TGCTCTTTGAACTCCGCTGCCTTCCTTAGCAGCTTCTGTCTCTTCTGTGAGTCAGTCAGCGAGTGCTGGGATC
CGCATCCAGCCGTGCTGAGCACACAACAGGCTGTGTGTGGAAATGGCCACCACCATTCTCCTTCCCCACCCACC
ACAAAAAGAGAAGCTGTGTCTTTAGACAACCCTGAGGTATCTGTGTTACAATCGTTCTGTGTTTGATATTTGTGT
AAAGTATGCATGCAGTCTTGTACTGTGACCTAAGAACAAAACCTGTAAGTGCATTAGAAACCATGAAAAAATTAGA
TATTGTTTTGTGACTTTTAGACAGTGGTAAATATAGAACCATGAATTCTGGTCACATTCCATTTCTCTCAACAT
GAAGGATCAAAAAATGTTTTCAATGTGTTCTTTGTTCCACTGGAACTTAGAGTCATGAGTTTATGAGCTGATT
TGGTCACCTTCCTCTGCCTTTGTTCACTGTGAGTTCTGATGTCTTAGTGACTTAGTTCTTAGAAGCTCACGCCTT
AGTTTGAAACAGATTCTCCACGGTGGTCCCCAAAACACTGTCTGCATATCCATAAGAATTGAGCGCTATGGGTGT
TAACGTGCATGAGGATCAGTTTGCAGCAGCAAGTACAAAAGGAGAAGAGGAACATCCGTTGAATGAGTGTGTTTT
GTACATAACTTCAGATACTTGTGAACATGCCTTATATTTGTCCAACAACCTGTCAGAATAAAGAACATTCTAAAT
GAG

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FIGURE 731

MDNFAEGDFTVADYALLED CPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSER NLEFDICSIWCSKPI
SVLQDYCDAIKINIFWPLLFOHQNSSVISRLHPCVDANNSRASEINLKKLQHLELMEDIVDLAKKVANDSFLIGG
LLRIGCKIENKILAMEEALNWI KYAGDVTILTKLGSIDNCWPMLSIFFT EYKYHITKIVMEDCNLLEELKTQSCM
DCIEEGELMKMKGNEEF SKERFDIAIYYTRAIEYRPENYLLYGNRALCFLRTGQFRNALGDGKRATILKNTWPK
GHYRYCDALSMLGEYDWA LQANIKAKQLCKNDPEGIKDLIQQHVKLQKQIEDLQGR TANKDPIKAFYENRAYTPR
SLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDCDCHPEFSPPSSQPPKHKGKQKSRNNESE
KFSSSSPLTLPADLKNILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYMALLEQRCSAAQAFTELLNGLDPQKI
KQLNLAMINYVLVVG LAISLLGIGQPEELSEAENQFKRIIEHYPS EGLDCLAYCGIGKVYLKKNRFLEALNHFE
KARTLIYRLPGVLTWPTSNVII EESQPKIKMLLEKFVEECKFPVPDAICCYQKCHGYSKIQIYITDPDFKGF I
RISCCQYCKIEFHMNCWKKLKT TTFNDKIDKDFLQIGCLTPDCEGVISKI IIFSSGGEVKCEFEHKVIEKEVPPR
PILKQKCSSLEKLRLKEDKKLKRKIQKKEAKKLAQERMEEDLRESNPPKNEEQKETVDNVQRCQFLDDRILQC IK
QYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTCFSSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSELKEVE
PKLAAWIQKLN SFGLDATGTFFSRYGASLKLDFSIMTFLWNEKYGHKLDSIEGQLDYFSEPA SLKEARCLIWL
LEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKKPKDSKPM LVSGTTSVTSNNEI I
TSSDH SNRNSDSAGPFAVPDHLRQDV EEF EALYDQHSNEYVVRNKKLWDMNPKQK CSTLYDYFSQFLEE HGPLD
MSNKM FSAEYEFFPEETRQILEKAGGLKPFLLGCPRFVVIDNCIALKKVASRLKKKRKKKNIKTKVEEISKAGEY
VRVKLQLNPAAREFKPDVKSKPVSDSSAPAFENVKPKPVSANSPK PACEDVKAKPVSDNSSRQVSEDGQPKGVS
SNSPKPGSEDANYKRVSCNSPKPVLEDVKPTYWAQSHLVTGYCTYLPFQRFDITQTPPAYINVL PGLPQYTSIYT
PLASLSPEYQLPRSVPVVP SFVANDRADKNAAAYFEGHHLNAENVAGHQIASETQILEGSLGISVKSHCSTGDAH
TVLSESNRND EHCNSNNKCEVIPESTS AVTNIPHVMVAIQVSWNIIHQEVNTEPYNPFEE RQGEISRIEKEHQ
VLQDQLQEVYENYEQIKLKGLEETRDLEEKLRHLEENKISKTELDWFIQDLEREIKKWQOEKKEIQERL KSLKK
KIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVA AEVSVLENWKE
SEVYKLQIMESQAEAF LKKLGLISRDPAAYPDMESDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELS
KVQISELSFPACNTVHPELLPESSGHDGQGLVTSASDVTGNHAALHRDPSVFSAGDSPGEAPSALLPGPPPGQPE
ATQLTGPKRAGQAAL SERSPVADRKQPVPPGRAARSSQSPKKPFNSIIEHLSVVFPCYNSTELAGFIKKVRSKNK
NSLSGLSIDEIVQRVTEHILDEQKKKKPNPGDKRTEYEPSSATPVTRSSQGSPSVVVAPSPKTKGQKAEDVPVRI
ALGASSCEICHEVF KSKNVRVLKCGHKYHKGCFKQWLKGQSAC PACQGRD

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FIGURE 732A

CACACGGACTACAGGGGAGTTTTGTTGAAGTTGCAAAGTCCTGGAGCCTCCAGAGGGCTGTGCGCGCAGTAGCAG
CGAGCAGCAGAGTCCGCACGCTCCGGCGAGGGGCGAGAAGAGCGCGAGGGAGCGCGGGGCGAGCAGAAGCGAGAGCC
GAGCGCGGACCCAGCCAGGACCCACAGCCCTCCCCAGCTGCCAGGAAGAGCCCCAGCCATGGAACACCAGCTCC
TGTGCTGCGAAGTGGAACCATCCGCCGCGCTACCCCGATGCCAACCTCCTCAACGACCGGGTGTGCGGGGCCA
TGCTGAAGGCGGAGGAGACCTGCGCGCCCTCGGTGTCTACTTCAAATGTGTGCGAGAAGGAGGTCTTGCCGTCCA
TGCGGAAGATCGTCGCCACCTGGATGCTGGAGGTCTGCGAGGAACAGAAGTGCAGGAGGAGGTCTTCCCGCTGG
CCATGAACCTACCTGGACCGCTTCTGTGCTGGAGCCCGTGAAAAAGAGCCGCTGCAGCTGCTGGGGGCCACTT
GCATGTTCTGTGGCCTCTAAGATGAAGGAGACCATCCCCCTGACGGCCGAGAAGCTGTGCATCTACACCGACAAC
CCATCCGGCCCCGAGGAGCTGCTGCAAAATGGAGCTGCTCCTGGTGAACAAGCTCAAGTGGAACCTGGCCGCAATGA
CCCCGCACGATTTTCAATTGAACACTTCTCTCCAAAATGCCAGAGGCGGAGGAGAACAACAGATCATCCGCAAC
ACGCGCAGACCTTCGTTGCCCTCTGTGCCACAGATGTGAAGTTCATTTCCAATCCGCCCTCCATGGTGCGAGCGG
GGAGCGTGGTGGCCCGCAGTGCAAGGCCTGAACCTGAGGAGCCCCAACAACTTCTGTCTACTACCGCCTCACAC
GCTTCTCTCCAGAGTGATCAAGTGTGACCCAGACTGCCTCCGGGCTGCCAGGAGCAGATCGAAGCCCTGCTGG
AGTCAAGCCTGCGCCAGGCCCAGCAGAACATGGACCCCAAGGCCGCCGAGGAGGAGGAAGAGGAGGAGGAGGAGG
TGGACCTGGCTTGACACCCACCGACGTGCGGGACGTGGACATCTGAGGGCGCCAGGCAGGCGGGCGCCACCGCC
ACCCGCAGCGAGGGCGGAGCCGGCCCCAGGTGCTCCCTGACAGTCCCTCCTCTCCGGAGCATTTTGATACCAGA
AGGGAAAGCTTCATTCTCCTTGTGTGTTGTTTTCTTTGCTCTTTCCCTTCCATCTCTGACTTAAGCA
AAAGAAAAAGATTACCCAAAACTGTCTTTAAAGAGAGAGAGAGAAAAAAAATAGTATTTGCATAACCTGA
GCGGTGGGGGAGGAGGGTGTGCTACAGATGATAGAGGATTTTATACCCCAATAATCAACTCGTTTTTATATTAA
TGTACTTGTCTCTGTGTGAAGATAGGCATTAACACAAAGGAGGCGTCTCGGGAGAGGATTAGGTTCCATCCT
TTACGTGTTTTAAAAAAAAGCATAAAAACATTTTAAAAACATAGAAAAATTCAGCAAACCATTTTTTAAAGTAGAAG
AGGGTTTTAGGTAGAAAAACATATCTTGTGCTTTTCTGTATAAAGCACAGCTGTAGTGGGGTTCTAGGCATCTC
TGTACTTTGCTTGCTCATATGCATGTAGTCACTTTATAAGTCATTGTATGTTATTATATTCCGTAGGTAGATGTG
TAACCTCTTACCTTATTCATGGCTGAAGTCACCTCTTGGTTACAGTAGCGTAGCGTGGCCGTGTGCATGTCCTT
TGCGCCTGTGACCACCACCCCAACAAACCATCCAGTGACAAACCATCCAGTGGAGGTTTGTGCGGCACCAGCCAG
CGTAGCAGGGTCGGGAAAGGCCACCTGTCCCACTCCTACGATACGCTACTATAAAGAGAAGACGAAATAGTGACA
TAATATATTCTATTTTTTATACTCTTCTTATTTTTGTAGTGACCTGTTTATGAGATGCTGGTTTTCTACCCACGG
CCCTGCAGCCAGCTCACGTCCAGGTTCAACCCACAGCTACTTGGTTTGTGTTCTTCTTCATATTCTAAAAACCAT
CCATTTCCAAGCACTTTCAGTCCAATAGGTGTAGGAAATAGCGCTGTTTTTGTGTTGTGTGTCAGGGAGGGCAGTT
TTCTAATGGAATGGTTTGGGAATATCCATGTACTTGTGTTGCAAGCAGGACTTTGAGGCAAGTGTGGGCCACTGTG
GTGGCAGTGGAGGTGGGGTGTGTTGGGAGGCTGCGTGCCAGTCAAGAAGAAAAAGGTTTGCATTCTCACATTGCCA
GGATGATAAGTTTCTTTCTTTTAAAGAAGTTGAAGTTTAGGAATCCTTTGGTGCCAACTGGTGTGTTGAAA
GTAGGGACCTCAGAGGTTTACCTAGAGAACAGGTGGTTTTTAAAGGTTATCTTAGATGTTTACACCGGAAGGTT
TTTAAACACTAAAAATATATAATTTATAGTTAAGGCTAAAAAGTATATTTATTGCAGAGGATGTTTATAAGGCCAG
TATGATTTATAAATGCAATCTCCCTTGATTTAAACACACAGATACACACACACACACACACACACACAAACC
TTCTGCCCTTTGATGTTACAGATTTAATACAGTTTTATTTTTAAAGATAGATCCTTTTATAGGTGAGAAAAAACAA
TCTGGAAGAAAAAAACCACACAAAGACATTGATTACGCCTGTTTGGCGTTTCCAGAGTCATCTGATTGGACAGG
CATGGGTGCAAGGAAATTAGGGTACTCAACCTAAGTTCGGTTCCGATGAATTCCTATCCCTGCCCTTCTTTT
AAAAAAGTTAGTGACAAAATAGACAATTTGCACATCTTGGCTATGTAATCTTGTAATTTTTATTAGGAAGTGT
TGAAGGGAGGTGGCAAGAGTGTGGAGGCTGACGTGTGAGGGAGGACAGGCGGGAGGAGGTGTGAGGAGGAGGCTC
CCGAGGGGAAGGGCGGTGCCACACCGGGGACAGGCCGAGCTCCATTTCTTATTGCGCTGCTACCGTTGACT
TCCAGGCACGGTTTGAAATATTCACATCGCTTCTGTGTATCTTTTACATTGTTTGTGCTGCTATTGGAGGATCA
GTTTTTTGTTTTACAATGTCATATACTGCCATGTACTAGTTTTAGTTTTCTCTTAGAACATTGTATTACAGATGC
CTTTTTTGTAGTTTTTTTTTTTTTATGTGATCAATTTGACTTAATGTGATTACTGCTCTATTCCAAAAAGGTT
GCTGTTTACAATACCTCATGCTTCACTTAGCCATGGTGGACCCAGCGGGCAGGTTCTGCCTGCTTTGGCGGGCA
GACACGCGGGCGCGATCCACACAGGCTGGCGGGGGCGGCCCGAGGCCGCGTGCGTGAGAACCGCGCCGGTGT
CCCCAGAGACCAGGCTGTGTCCCTCTTCTCTCCCTGCGCCTGTGATGCTGGGCACTTCATCTGATCGGGGGCGT
AGCATCATAGTAGTTTTTACAGCTGTGTTATTCTTTGCGTGTAGCTATGGAAGTTGCATAATTATTATTATTATT

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FIGURE 732B

ATTATAACAAGTGTGTCCTTACGTGCCACCACGGCGTTGTACCTGTAGGACTCTCATTTCGGGATGATTGGAATAGC
TTCTGGAATTTGTTCAAGTTTTGGGTATGTTTAATCTGTTATGTACTAGTGTCTGTTTGTTATTGTTTTGTTAA
TTACACCATAATGCTAATTTAAAGAGACTCCAAATCTCAATGAAGCCAGCTCACAGTGCTGTGTGCCCCGGTCAC
CTAGCAAGCTGCCGAACCAAAAAGAAATTTGCACCCCGCTGCGGGCCCCACGTGGTTGGGGCCCTGCCCTGGCAGGGT
CATCCTGTGCTCGGAGGCCATCTCGGGCACAGGCCCACCCGCCCCACCCCTCCAGAACACGGCTCACGCTTACC
TCAACCATCCTGGCTGCGGCGTCTGTCTGAACCACGCGGGGGCCTTGAGGGACGCTTTGTCTGTGCTGATGGGGC
AAGGGCACAAGTCCTGGATGTTGTGTGTATCGAGAGGCCAAAGGCTGGTGGCAAGTGCACGGGGCACAGCGGAGT
CTGTCCTGTGACGCGCAAGTCTGAGGGTCTGGGCGGCGGGCGGCTGGGTCTGTGCATTTCTGGTTGCACCGCGGC
GCTTCCCAGCACCAACATGTAACCGGCATGTTTCCAGCAGAAGACAAAAGACAAACATGAAAGTCTAGAAATAA
AACTGGTAAAACCCCAAAAAAAAAAAAAAAAAA

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FIGURE 733

MEHQLLCCEVETIRRAYPDANLLNDRVLRAMLKAEETCAPSVSYFKCVQKEVLPSMRKIVATWMLEVCEEQKCEE
EVFPLAMNYLDRFLSLEPVKKSRLQLLGATCMFVASKMKETIPLTAEKLCIYTDNSIRPEELLQMELLLVNKLKW
NLAAMTPHDFIEHFLSKMPEAEENKQIIRKHAQTFVALCATDVKFISNPPSMVAAGSVVAAVQGLNLRSPNNFLS
YYRLTRFLSRVIKCDPDCLRACQEIEALLESSLRQAQQNMDPKAAEEEEEEEEEEVDLACTPTDVRDVDI

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FIGURE 734

AATTCGGGGGCCGTGGAGTTTGTGACATACGAGGTGACACCCCTCGAGTCACTTCCCTTCAACTCCAGCTGGAGC
GCCTGCTTGGCTTTGGGTTCTGTTCTGCAGCCTTCGCCCCGCTCCTAGCCTCAGGGCCGGACTCCAGCGCAGAGCC
CAGCCCAGCGCAGCCTGCCAGCAGCCACCCAGCCGCCAGCCGCCAGCCCCGCACGAAACCCGGCCAGAGCTTC
CTAGCAGCCCCGAGCCATGAACACCGAAATGTATCAGACCCCCATGGAGGTGGCGGTCTACCAGCTGCACAATTTT
TCCATCTCCTTCTTCTCTTCTCTGCTTGGAGGGGATGTGGTTTCCGTTAAGCTGGACAACAGTGCCTCCGGAGCC
AGCGTGGTGGCCATAGACAACAAGATCGAACAGGCCATGGATCTGGTGAAGAATCATCTGATGTATGCTGTGAGA
GAGGAGGTGGAGATCCTGAAGGAGCAGATCCGAGAGCTGGTGGAGAAGAAGTCCCAGCTAGAGCGTGAGAACACC
CTGTTGAAGACCCTGGCAAGCCCAGAGCAGCTGGAGAAGTTCCAGTCTGTCTGAGCCCTGAAGAGCCAGCTCCC
GAATCCCCACAAGTGCCCGAGGCCCTGGTGGTTCTGCGGTGTAAGTGGCTCTGTCTCAGGGTGGGCAGAGCCA
CTAAACTTGTTTTACCTAGTTCTTTCCAGTTTGTTTTGGCTCCCCAAGCATCATCTCACGAGGAGAAGTTTACA
CCTAGCACAGCTGGTGCCAAGAGATGTCTAAGGACATGGCCACCTGGGTCCACTCCAGCGACAGACCCCTGACA
AGAGCAGGTCTCTGGAGGCTGAGTTGCATGGGGCCTAGTAACACCAAGCCAGTGAGCCTCTAATGCTACTGCGCC
CTGGGGGCTCCAGGGCCTGGGCAACTTAGCTGCAACTGGCAAAGGAGAAGGGTAGTTTGAGGTGTGACACCAGT
TTGCTCCAGAAAGTTTAAGGGGTCTGTTTCTCATCTCCATGGACATCTTCAACAGCTTCACCTGACAACGACTGT
TCCTATGAAGAAGCCACTTGTGTTTTAAGCAGAGGCAACCTCTCTCTTCTCTCTGTTTCGTGAAGGCAGGGGAC
ACAGATGGGAGAGATTGAGCCAAGTCAGCCTTCTGTTGGTTAATATGGTATAATGCATGGCTTTGTGCACAGCCC
AGTGTGGGATTACAGCTTTGGGATGACCGCTTACAAAGTTCTGTTTGGTTAGTATTGGCATAGTTTTTCTATATA
GCCATAAATGCGTATATATACCCATAGGGCTAGATCTGTATCTTAGTGTAGCGATGTATACATATACACATCCAC
CTACATGTTGAAGGGCCTAACCAGCCTTGGGAGTATTGACTGGTCCCTTACCTCTTATGGCTAAGTCTTTGACTG
TGTTCAATTTACCAAGTTGACCCAGTTTGTCTTTTAGGTTAAGTAAGAACTCGAGAGTAAAGGCAAGGAGGGGGGC
CAGCCTCTGAATGCGGCCACGGATGCCTTGCTGCTGCAACCCTTTCCCCAGCTGTCCACTGAAACGTGAAGTCCT
GTTTTGAATGCCAAACCCACCATTCACTGGTGCTGACTACATAGAATGGGTTGAGAGAAGATCAGTTTGGGCTTC
ACAGTGTCAATTTGAAAAAGCGTTTTTGTGTTTTGTAATTATTGTGGAAGAACTTTCAAGTGAACAGAAGGATGG
TGTCCTACTGTGGATGAGGGATGAACAAGGGGATGGCTTTGATCCAATGGAGCCTGGGAGGTGTGCCCAGAAAGC
TTGTCTGTAGCGGGTTTTGTGAGAGTGAACACTTTCCACTTTTTGACACCTTATCCTGATGTATGGTTCCAGGAT
TTGGATTTTGATTTTCCAAATGTAGCTTGAAATTTCAATAAAGTTTGTCTGTGTTTTCTAAAAAATAAAAA

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FIGURE 735

MNTEMYQTPMEVAVYQLHNFSISFFSSLLGGDVSVKLDNSASGASVVAIDNKIEQAMD LVKNHLMYAVREEVEI
LKEQIRELVEKNSQLERENTLLKTLASPEQLEKFQSCLSPEEPAPESPQVPEAPGGS AV

[illegible]

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FIGURE 737

MISLIALEFTNFIQTYNKKGASRRKDHLKDHQNGSMAAVNGHTNSFSPLENNVKPRKLRKD

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FIGURE 738

TCCTGGAGCTGTGAGGAGATTCCGGGCCGTACCCCTGCCTCCCCTGCGTCCCGCCACCGGCCGCTTCTGTCCCTCGG
ACCCATTCCAACAATCTCGTAAAACATGGTGGATTACTATGAAGTTCTAGGCGTGCAGAGACATGCCTCACCCGA
GGATATTAAAAAGGCATATCGGAACTGGGCACTGAAGTGGCATCCAGATAAAAAATCCTGAGAATAAAGAAGAAGC
AGAGAGAAAATTCAAGCAAGTAGCGGAGGCATATGAAGTGCTGTGCGATGCTAAGAAACGGGACATCTATGACAA
ATATGGCAAAGAAGGATTAAATGGTGGAGGAGGAGGTGGAAGTCATTTTGACAGTCCATTTGAATTTGGCTTCAC
ATTCCGTAAACCCAGATGATGTCTTCAGGGAATTTTTTGGTGGAAGGGACCCATTTTCATTTGACTTCTTTGAAGA
CCCTTTTGAGGACTTCTTTGGGAATCGAAGGGGTCCCCGAGGAAGCAGAAGCCGAGGGACGGGGTCGTTTTTCTC
TGC GTTCAGTGGATTCCGTCTTTTGGAAGTGGATTTTCTTCTTTTGATACAGGATTTACTTCATTTGGGTCACT
AGGTACAGGGGGCCTCACTTCATTCTCTTCCACGTCATTTGGTGGTAGTGGCATGGGCAACTTCAAATCGATATC
AACTTCAACTAAAATGGTTAATGGCAGAAAAATCACTACAAAGAGAATTGTGCGAAGCGGTCAAGAAAGAGTAGA
AGTTGAAGAAGATGGCCAGTTAAAGTCCTTAACAATAAATGGTAAGGAGCAGCTGCTGCGCTTGGATAACAAGTA
ATTCAACGCACGCACCTTAACAGAAATGTTAAACTATAACAAGCACCATTTGAGGATTAACAGGAACATTTTTTTG
AAGATTTCAAACGAACCTCGACTTTCAGTATAATTGTACCTAAAGTATTTATAAACAGCTCATCGGAGCCTCTATT
TGTCATAGACTTTTGAGTTGATTGTTGGGACCACATAATAGGACCATTTTTTTTTTGTCTTTAAATTTGTTGTAA
ATCTCTGTATGCACCTTTGCTTTTTTATTAAACGTACTCCAAGGTGAGTCTTGACTCTTTAGTGTAGGACAAGATT
GTACACTAACACCAGCATGGACCTGCTTTTCATTGTGTCTGAAATGTGAGCCACGTAGTGTGCGCCTGCTGTGAA
GTTAACATTGCCAGGACGATTCTTCTACAGAAATAATTTCAATTTTTTTTTCAGTATTTAGTAGTGAAAGATATTAA
TACATTAATGGTAATACATTTCTGGTTTAATATAAATTAAGGATGTTTTCTAGTTGTGCATGAATGCTGGCAACT
TAGTAAGTTTTGACAATTGTTTAAATATGTAATGTTAAGCTTAGGTTTAAAAAAGTAAAGCTGGTAAACTGGGTC
TTTGTCAATTTGCTTTAAAAAAAAAAAAAAAAAGAAAATAAATGCGAATGTGTTGGTGCAATTC

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FIGURE 739

MVDYIEVLGVQRHASPEDIKKAYRKLALKWHPDKNPENKEEAERKFKQVAEAYEVLSDAKKRDIYDKYGKEGLNG
GGGGGSHFDSPFEEFGFTFRNPDDVFREFFGGRDPFSFDFFEDPFEDFFGNRRGPRGSRSRGTGSFFSAFSGFPSF
GSGFSSFDTGFTSFGLGHGGLTSFSSTSFGGSGMGNFKSISTSTKMVNNGRKITTKRIVENGQERVEVEEDGQLK
SLTINGKEQLLRLDNK

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FIGURE 740

GGCACGAGGGAGAAAAGGAGAGAAAAGGAAAGCGCGAGGAGCCGCCGCCACCACCAGCGCAGCAGTCCTGGAGCTGT
GAGGAGATTTCGGGCCCGTCACCCCTGCCTCCCCCTGCGTCCCGCCACCGGCCGCTTCTGTCTCGGACCCATTCCAAC
AATCTCGTAAAAACATGGTGGATTACTATGAAGTTCTAGGCGTGCAGAGACATGCCTCACCCGAGGATATTAAAAA
GGCATATCGGAAACTGGCACTGAAGTGGCATCCAGATAAAAAATCCTGAGAATAAAGAAGAAGCAGAGAGAAAATT
CAAGCAAGTAGCGGAGGCATATGAAGTGTGCTGCGGATGCTAAGAAACGGGACATCTATGACAAATATGGCAAAGA
AGGATTAAATGGTGGAGGAGGAGGTGGAAGTCATTTTGACAGTCCATTTGAATTTGGCTTCACATTCCGTAACCC
AGATGATGTCTTCAGGGAATTTTTTGGTGGAAAGGGACCCATTTTCAATTTGACTTCTTTGAAGACCCTTTTGAGGA
CTTCTTTGGGAATCGAAGGGGTCCCCGAGGAAGCAGAAGCCGAGGGACGGGGTCGTTTTCTCTGCGTTTCAGTGG
ATTTCCGTCTTTTGAAGTGGATTTTCTTCTTTTGATACAGGATTTACTTCATTTGGGTCACTAGGTACACGGGGG
CCTCACTTCATTCTCTTCCACGTCAATTTGGTGGTAGTGGCATGGGCAACTTCAAATCGATATCAACTTCAACTAA
AATGGTTAATGGCAGAAAAATCACTACAAAGAGAATTGTGAGAACGGTCAAGAAAGAGTAGAAGTTGAAGAAGA
TGGCCAGTTAAAGTCCTTAACAATAAATGGTGTGGCCGACGACGATGCCCTCGCTGAGGAGCGCATGCGGAGAGG
CCAGAACGCCCTGCCAGCCAGCCTGCCGGCCTCCGCCCGCCGAAGCCGCCCGGCCCTGCCCTCGCTGCTGAGACA
CGCGCCTCACTGTCTCTCTGAGGAGGAGGGCGAGCAGGACCGACCTCGGGCACCCGGGGCCCTGGGACCCCTCGC
GTCCGCAGCAGGATTGAAAGAAGGTGGCAAGAGGAAGAAGCAGAAGCAGAGAGAGGAGTCGAAGAAGAAGAAGTC
GACCAAAGGCAATCACTAGACCGGACTTGAGGCACGCGGTGCACCCCCAGACGCTGGCGCTCCACCGTGTCTCGGC
ATGCGGTGCTGCACACGCGCTAGGTAGCAGCGTGGTTCAGGACTGTCTCGAGGCCACACTCGCTCGGCAGGATTA
TGCGATCACGGATCAGTCAGAGCAGGGTCAGGAGACGGGGCTGACGGCACGGGTGGCGGGGACAGACGTTTGGGA
CTTGGCCGCGACTCTCTGCTTCTCTCCAGCTCTCAATCTGCTGCATTTTCTCTAGTGCTTCCGGATCCTCTTCA
TTCTTTTTCGGCTACTCAACCACTCCGCATGCTGCTGGAATATTTCTGGCTTTAGAAGTACAGGAGGGCGCAGATG
GCTAACTGAGTAACATTTCATGAAATGAGGCTTTCTGTGGCGGCGTAGTGTTTGAATTAGAAGGTAATTCAGTAG
AGTGTAACCTTAGAGAATATTGCAAGTGACACATTGAATCCTGCCCGTCAGGGCACCTTTTCTCAGAGCAATCCG
GCCACACGAATAGAAGGCTGTCTGTGAATCACATCAGATGTAAATCATTCTTCTGTTTACTCTTTTAAATTTTCA
TCCTTTGTCAGGTAGTGCAAATTCAACTTCAAATATGGTGTAGGTTTTGCTAGATTCCATATTTTTTCTTGGATT
TTTGCTAATTATTTTTTAGCAAAAAATTTTTGCTCAGTGGCACCCCTCCCTAGTGTCATGGGTTAGGGCCATGCTG
GGGAAAACGGGCCCGGTATTTACACACGCGCAAAACACCCAGAGACGGCACAAAGGAGGTTGAACTCATGTTTCAGT
TCGCGAACATTGACTCCTTACGAAAGTCACTTCATTCTAACTAGATGCGCCCACTTCCGGTCATTATTTTCGTTT
CATGATGTATTGCTTCTTTCACGTTTTGTTTTATTGAGCACGGAGTAGAATTCCAGGGCTGCCTTGAATTTCTTCC
CTGATGCTCCCTCCAGTGACTTTTCTTCCCTTTCACATGAGGATCTGCCGTTTCATGTTGCTTTCTCCTTTGTC
CTCTTGGACTTGAGGGCATTGTGAAAAGCTTTGCTGTGATTTAAAAATGCCAGCAATTTTAACTAGCAGTGTTG
AAGCTGGGAATTTTTTGGCGCAATCCATGTAGCAGTGACCCAGGCTTGGGAGCCAGAAACAAGTGTGACCTGGGA
TTTTATTTAACACAAGTGTGCGCAAGAGTTGGCTTTGTTTTATTGTTTTTGGCGGGGAGAGGAGTGGTATTTGA
TGCTTTCTGTGGACAATGTAACCTAAACACATCATGATTTTAAATGCCACCTACATAAATAAAACATAAGCAT
ATTGAATACAAAAA

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FIGURE 741

MVDYYEVLGVQRHASPEDIKKAYRKLALKWHPDKNPENKEEAERKFQVAEAYEVLSDAKKRDIYDKYGKEGLNG
GGGGGSHFDSPFEGFTFRNPDDVFREFFGGRDPFSFDFFEDPFEDFFGNRRGPRGSRSGTGSFFSAFSGFPSPF
GSGFSSFDTGFTSFGSLGHGGLTSFSSTSFSGSGMGNFKSISTSTKMVNGRKITTKRIVENGQERVEVEEDGQLK
SLTINGVADDDALAEERMRRGQNALPAQPAGLRPPKPPRPASLLRHAPHCLSEEEGEQDRPRAPGPWDPLASAAG
LKEGGKRKKQKQREESKKKKSTKGNH

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FIGURE 742

GCACGAGCTGCGGCTCCGCTCTCGTCGCAACGAGATCTTTTCGAGATCTTCTCCGCCCCGCTACCGGCGCCTCCT
CTGCGGCCACTGAGCCGGAGCCGGCCTGAGCAGCGCTCTCGGTTGCAGTACCCACTGGAAGGACTTAGGCGCTCG
CGTGACACCGCAAGCCCCCTCAGTAGCCTCGGCCCAAGAGGCCTGCTTTCCACTCGCTAGCCCCGCCGGGGTCCG
TGTCTGTCTCGGTGGCCGGACCCGGGCCCGAGCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCATAGACC
TGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAGCGACC
GCTGCACGCCGGCTTGCATTTCTTTTGGTCTTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGTAATTT
CTAATGCAAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGAGGCAG
AAAAATCTAACCTTGCATATGATATTGTGCAGTTGCCTACAGGATTAACAGGTATAAAGGTGACATATATGGAGG
AAGAGCGAAATTTTACCCTGAGCAAGTGACTGCCATGCTTTTGTCCAAACTGAAGGAGACAGCCGAAAGTGTTT
TTAAGAAGCCTGTAGTTGACTGTGTTGTTTCGGTTCTTGTCTTATACTGATGCAGAAAGACGATCAGTGATGG
ATGCAACACAGATTGCTGGTCTTAATTGCTTGCATTAAATGAATGAAACCACTGCAGTTGCTCTTGCATATGGAA
TCTATAAGCAGGATCTTCTGCTTAGAAGAGAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTCTGCTT
ATCAAGTTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATTGGGAG
GTAGAAAATTTGATGAAGTGTTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACATTAAGT
CCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGCTTCAG
ATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAACATATGAATAGAGGCAAATTTCTGG
AGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCCTTCGTAGTGTGTTTGGAAACAAACCAAGTTAAAGAAAG
AAGATATTTATGCAGTGGAGATAGTTGGTGGTGTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAAATTTT
TCGGTAAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGCCATCT
TATCGCCTGCTTTCAAAGTCAGAGAATTTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATGGAATT
CTCCAGCTGAAGAAGGGTCAAGTGACTGTGAAGTCTTTTCCAAAATCA.TGCTGCTCCTTTCTCTAAAGTTCTTA
CATTTTATAGAAAGGAACCTTTCACCTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGATCCTG
CTATAGCTCAGTTTTCAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAAGTGAAAGTCAAAGTTC
GAGTAAATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTTCAAGTCTGAGGAAAATGAGG
AGCCAATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCATGTTGAAG
AGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATCCAAGG
ATAAAAAGATGGACCAACCACCCCAAGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAATCGAGA
ATCAGCTATTATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCATGCAGG
ATAAAGTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGAGGGAATATGTGTATGAAATGAGAGACAAGCTTA
GTGGTGAATATGAGAAGTTTGTGAGTGAAGATGGTCTGTAACAGTTTTTACTTTGAAACTGGAAGATACTGAAAATT
GGTTGTATGAGGATGGAGAAGACCAGCCAAAGCAAGTTTATGTTGATAAGTTGGCTGAATTAAGAAATCTAGGTC
AACCTATTAAGATACGTTTCCAGGAATCTGAAGAACGACCAAAATTATTTGAAGAACTAGGGAAACAGATCCAAC
AGTATATGAAAATAATCAGCTCTTTCAAAAACAAGGAGGACCAGTATGATCATTGGATGCTGCTGACATGACAA
AGGTAGAAAAAAGCACAAATGAAGCAATGGAGTGGATGAATAACAAGCTAAATCTGCAGAACAGCAGAGTTTGA
CCATGGATCCAGTTGTCAAGTCAAAAGAGATTGAAGCTAAATTAAGGAGCTGACAAGTACTTGTAGCCCTATAA
TTTCAAAGCCCCAAACCCAAAGTGGAACCTCCAAAAGAGGAACAAAAAATGCAGAGCAGAATGGACCAGTGGATG
GACAAGGAGACAACCCAGGCCCCAGGCTGCTGAGCAGGGTACAGACACAGCTGTGCCCTCGGATTCAGACAAGA
AGCTTCCTGAAATGGACATTGATTGATTCCAACACTTGTCTTATTAAACAGACTATTATAAA

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FIGURE 743

MSVVGIDLGFGQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAAKSQVISNAKNTVQGFKRFGRAF
SDPFVEAEKSNLAYDIVQLPTGLTGIVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPFCFYTD
AERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPALEEKPRNVVVFVDMGHSAYQVSVCAFNRGKLKVLAT
AFDTTLGGRKFDEVLVNHFCIEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKVFREFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYPDPAIAQFSVQKVTPQSDGSSSKVKVVRVNVHGIFSVSSASLVEVHKSEENEEMETDQNAKEEEKMQVD
QEEPHVEEQQQQTPAENKAESEEMETSQAGSKDKKMDQPPQAKKAKVKTSTVDLPIENQLLWQIDREMLNLYIEN
EGKMIMQDKLEKERNDKNAVREYVYEMRDKLSGEYEKVFVSEDGRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQSEERPKLFEELGKQIQQYMKIISFKNKEDQYDHLDAADMTKVEKSTNEAMEWMNNKLN
LQNKQSLTMDPVVKSKEIEAKIKELTSTCSP IISKPKPKVEPPKEEQKNAEQNGPVDGQGDNP GPQAAEQGTDTA
VPSDSKKLPEMDID

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FIGURE 744A

TCCGCCTCTCTCTTTACTGCGGCGCGGGGCAAGGTGTGCGGGCGGGAAGGGGCACGGGCACCCCCGCGGTCCCCG
GGAGGCTAGAGATCATGGAAGGGAAGTGGTTGCTGTGTATGTTACTGGTGCTTGGAAGTCTATTGTTGAGGCTC
ATGATGGACATGATGATGATGTGATTGATATTGAGGATGACCTTGACGATGTCATTGAAGAGGTAGAAGACTCAA
AACCAGATACCACTGCTCCTCCTTCATCTCCCAAGGTTACTTACAAAGCTCCAGTTCCAACAGGGGAAGTATATT
TTGCTGATTCTTTTGACAGAGGAAGTCTGTGAGGGTGGATTTTATCCAAAGCCAAGAAAGACGATACCGATGATG
AAATTGCCAAATATGATGGAAAGTGGGAGGTAGAGGAAATGAAGGAGTCAAAGCTTCCAGGTGATAAAGGACTTG
TGTTGATGTCTCGGGCCAAGCATCATGCGATCTCTGCTAAACTGAACAAGCCCTTCCTGTTTGACACCAAGCCTC
TCATTGTTTCAGTATGAGGTTAATTTCCAAAATGGAATAGAATGTGGTGGTGCCTATGTGAAACTGCTTTCTAAAA
CACCAGAAGTCAACCTGGATCAGTTCCATGACAAGACCCCTTATACGATTATGTTTGGTCCAGATAAATGTGGAG
AGGACTATAAACTGCACTTCATCTTCCGACACAAAACCCCAAAACGGGTATCTATGAAGAAAAACATGCTAAGA
GGCCAGATGCAGATCTGAAGACCTATTTTACTGATAAGAAAACACATCTTTACACACTAATCTTGAATCCAGATA
ATAGTTTTGAAATACTGGTTGACCAATCTGTGGTGAATAGTGGAAATCTGCTCAATGACATGACTCCTCCTGTAA
ATCCTTCACGTGAAATTGAGGACCCAGAAGACCGGAAGCCCGAGGATTGGGATGAAAGACCAAAAATCCCAGATC
CAGAAGCTGTCAAGCCAGATGACTGGGATGAAGATGCCCTGCTAAGATTCCAGATGAAGAGGCCACAAAACCCG
AAGGCTGGTTAGATGATGAGCCTGAGTACGTACCTGATCCAGACGCAGAGAAACCTGAGGATTGGGATGAAGACA
TGGATGGAGAATGGGAGGCTCCTCAGATTGCCAACCTAGATGTGAGTCAGCTCCTGGATGTGGTGTCTGGCAGC
GACCTGTGATTGACAACCCCAATTATAAAGGCAAATGGAAGCCTCCTATGATTGACAATCCCAGTTACCAGGGAA
TCTGGAACCCAGGAAAATACCAAAATCCAGATTTCTTTGAAGATCTGGAACCTTTCAGAATGACTCCTTTTAGTG
CTATTGGTTTGGAGCTGTGGTCCATGACCTCTGACATTTTTTTTGACAACTTTATCATTGTGTCTGATCGAAGAA
TAGTTGATGATTGGGCCAATGATGGATGGGGCCTGAAGAAAGCTGCTGATGGGGCTGCTGAGCCAGGCGTTGTGG
GGCAGATGATCGAGGCAGCTGAAGAGCGCCCGTGGCTGTGGGTAGTCTATATTCTAACTGTAGCCCTTCCTGTGT
TCCTGGTTATCCTCTTCTGCTGTTCTTGAAAGAAACAGACCAGTGGTATGGAGTATAAGAAAACCTGATGCACCTC
AACC GGATGTGAAGGAAGAGGAAGAAGAGAAGGAAGAGGAAAAGGACAAGGGAGATGAGGAGGAGGAAGGAGAAG
AGAACTTGAAGAGAAACAGAAAAGTGAATGCTGAAGAAGATGGTGGCACTGTCAGTCAAGAGGAGGAAGACAGAA
AACCTAAAGCAGAGGAGGATGAAATTTGAACAGATCACCAGAAACAGAAAGCCACGAAGAGAGTGAACAATC
TTAAGAGCTTGATCTGTGATTTCTTCTCCCTCCTCCCTGCAAGAGTGGTCCTAGGAGAGGACCTGGCACACCTT
AGGTTGACATTGAGAAAACCTCAAGACATCACCATCAGCAGGCTCCAGTTGAACACTAGTCTGTGTAACCTTTAAA
CATCTAGCAGTAAATACTTGCAGTTGTGATATAAAGGACCCGTGTTCTGTAGAAAAGAAAACATTTAACAATAATG
GTTGTGAAATGTAACATGAAGCAAACCTAACTTTTTTTTTTTTAAACATCTTTGTTTTTAAATAGAATGATAGAAC
TTTGCCAGTCTTTAAGATCTTGGCTTAATTTAATGTATTAATCTGTTTGTGCAAACATAATACCACCATTTAAAA
ATGTTAGGGAGATGAGTTGCAGTTTTTATAATAGATTTTTTTTAAAGTTTGGTATTGTAACATTACACCTCT
GTCCCTCAAATTGATAATTACGTTTAAAGTGCAGTCATTTGTGGTTAGAATCTTGTGTTTTGTTTGTCTCCATTAT
TGAGTTCCCTCCTAAGGAAATTGAGGAGAGGGACTGAATAGAAGCCCAATTCATATAAAAGTTGCGTTTAAAGTTG
TATTAAAAATAGATATATAAGAAAAAATCTTTCACTTGATGTTTGTAGACCAGAAAGTGTGTGTGTTCTGTAG
CTCAGTTCCCAGACAGCTTTTTAGGTAGTGGAGGAGGTGGCTTCATGTGGCACTTGGGCATTTATATTCCACTTG
GGAGGGTCAGGCCTGTGGCTTCTGGAGCAGGTGGCTTGTTAAGGAACGCTAGCAGGGCATGGCACGTGAGCTCCG
GAATAGATGTCTTCATCACTTCTTCCACTGTGTGTTGACACTGTTTCCCTTACCTATTTCCCTCAGATCCCCAGCT
TTCTCCTCGCTATGCATTTCTTTCAGTGCAGCTTGCAGTCCGTTGCTGAAAATGATTATAAGCCCTGCATAAT
GTTAAGCTTTATTGTGATTACGTGTATGTTTCTTCTTTTAAAGCAGACCCATACCTTTCCAGGGTCAAAGTA
CAGAATAGAATACATTGATACAAAGTACAGAAAAATACTTTGATTTTTATCCATTTCTTTTACTCTGTGTAAAGA
CTTTAGAAGTCTAATTCACAGGCAAACCAATACAGAATTGACTGCAGTTGAACAGACTAGAAGTATTTGTGGGAG
GAGTGACATGAAGCATGAGTTATCTGATTTTTTTTGTAGCTGCTATATATTTAAGCCTTCATTTGCAATTCATG
TAACAGTTGTGTCAATAAATTACACAATAAAGCAGTCCTGTTCAAATTTTTTTTTAACGTGGCTTGTAAGATTTTT
AAAAAAGTGATCTTAGGTTTGTTTTTTTCATGCGGGATGCAGATGGGTGCTATCAGAGCCTCTCCACACCACTAT
AGTGTAAATAATGTTATTATTACTCTACACTGAAACGTATTGAGAGTTAGATATTATTTTAGCTTCAGTTGTTCTT
TAGAGGCTTTCAAATGTACCGATGATACTGTTTCTTGCACTGAATATATAAAACTCCACAGTGTATATTGGG
AAGATATTGGGAAGGAAATATATTTGTAAAAGATGAAGGCTGTATCTATTTTTTTTTCTTTTTAAACTGGTTTAC
TTAAATCTTTTGGAGATGGGATGTATTTTTCTTGCTGTTTCACTGCTTTTTCTTTTCACTGTTGTTCTGTGGT

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FIGURE 744B

CACAGTGACCTTAGCTACATAGCAGACTTCCCAAATGTATTGATTACAAATAAACAGTTGTTACTTAGCAAGAC
CTGAAAATATGTCTGCAGGTTTCTCCTTGAAGCAAATGTGTGGGATCATTGCATTTCCAGAAATCTGCCTCCTTC
ACCCACCGTTGACAGTATATGTCATGCCTCACTTCTTGTAGCTGAGCTTTAAATCATTAGAGCTTAAATTGTCA
GATCGTTCATTGCCTTTCCAGGGTTATTTAGTAAAGTTTGTGAAAACAAAAACGCCTTTTCTTGGTTCTTTTTT
CAGTTATTTTGAAGGTCCAGCATCCTGATTAAATGTCTGACACTTAATGAATGACCAGCAGCAGCTTTCAGCTCT
TAAAAGACACTTATATTTTGATTTTACATGCTGGTTACCTGTTCCATTGTTGTCAAATGCCAGTGTCCATCAG
ATGTGTTCCCTCCATTTTCTTATCCACAAAGTACTCCTCACTTTTCAATTGTGTCATGTTACTAAACCC

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FIGURE 745

MEGKWLLCMLLVLTGTAIVEAHDGHDDDDVIDIEDDLDDVIEEVEDSKPDTTAPPSSPKVITYKAPVPTGEVYFADSF
DRGTL SGWILSKAKKDDTDDEIAKYDGKWEVEEMKESKLP GDKGLVLM SRAKHHAISAKLNKPF LFDTKPLIVQY
EVNFQNGIECGGAYVKLLSKTPELNLDQFHDKTPYTIMFGPDKCGEDYKLHFIFRHKNPKTGIYEEKHAKRPDAD
LKTYFTDKKTHLYTLILNPDNSFEILVDQSVVNSGNLLNDMTPPVNP SREIEDPEDRKPEDWDERPKIPDPEAVK
PDDWDEDAPAKIPDEEATKPEGWLDDEPEYVPDPDAEKPEDWDEDMDGEWEAPQIANPRCESAPGCGVWQRPVID
NPNYKGKWKPPMIDNPSYQGIWKPRKIPNPDFFEDLEPFRMTPFSAIGLELWSMTSDIFFDNFIICADRRIVDDW
ANDGWGLKKAADGAAEPGVVGQMI EAAEERPWLWVVYILTVALPVFLVILFCCSGKKQTSGMEYKKT DAPQPDVK
EEEEEEKEEEKDKGDEEEEGEEKLEEKQKSDAEEDGGTVSQEEEDRKPKAEDEILNRSRPNRKPRRE

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FIGURE 746

GGGGAGAGAGTGGGGACGTCCGGCTTCGGAGCGGGAGTGTTCGTTGTGCCAGCGACTAAAAAGAGAATTAAATAT
GGGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAAGTGTTCCCAGTACCACACCGTTGAAAAGGGAGGCAA
GCACAAGACTGGGCCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTCAGGCCCCCTGGATACTCTTACACAGC
CGCCAATAAGAACAAAGGCATCATCTGGGGAGAGGATACACTGATGGAGTATTTGGAGAATCCCAAGAAGTACAT
CCCTGGAACAAAAATGATCTTTGTGCGCATTAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAA
AGCTACTAATGAGTAATAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTGT
ACCATCCTTTAATAGATCTCATAACACCAGAATTCAGATCATGAATGACTGACAGAATATTTTGTGGGCAGTCCT
GATTTAAAACTAAGACTGGCTTGTGGTTAAATGAATATGTTTCAGTTTTTGAATTTAATAGTAACTCCAATTCAG
TAAATGGTATCACTGTTTACCCCTTTTAAAGATATGATTAGACTTCGTTAGTAATGTTCAACTTTTCACAAAGAT
GGTGAGTGCCATCTTAAAACCTTACTGGAGATTGGTTTTATTTTAGATTTATATACTGGTTATGTGAATATATT
TAAATACTGGGGAAATTGCTTCACTGTCTTAGAACCAAGCAAGATTCACCTGTGTTTTGTGTTTCATGTTCAATTTG
CCTCTTAAAGGCAAGGGTTGAAGATAAATAAGGTAGCAATGTCTATAGTTTTGGCCTTAACATGCCAATCTAAT
TATAATTCCCTGTATTTAAATGGTTTCTTTTACTTATTGAAAGGCATTTTAGTGTGGTTTATGTGTAATATTAA
AGATTATTCAACACCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 747

MGDVEKGKKIFIMKCSQYHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNGI IWGEDTLMEYLENPKKY
IPGTMIFVGIKKKEERADLIAYLK KATNE

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FIGURE 748

CCGGCGGCGCCTCAGGTGCGGGGGCGCCTAGGCCTGGGTGTGCTTTGCATCTGCACGTGTTGCGAGTCGTTTCC
GCGATGCTGCTCTGCTGCGCTGCGTGCCCCGTGTGCTGGGCTCCTCCGTGCGCGGCCTCCGCGCTGCCGCGCCC
GCCTCGCCTTTCCGGCAGCTCCTGCAGCCGGCACCCCGGCTGTGCACCCGGCCCTTCGGGCTGCTCAGCGTGCGC
GCAGGTTCCGAGCGGCGGCCGGGCTCCTGCGGCCTCGCGGACCCTGCGCCTGTGGCTGTGGCTGCGGCTCGCTG
CACACCGACGGAGACAAAGCTTTTGTGATTTCCTGAGTGATGAAATTAAGGAGGAAAGAAAAATTGAGAACAT
AAAACCTCCCTAAGATGTCTGGAGGTTGGGAGCTGGAAGTGAATGGGACAGAAGCGAAATTAGTGCGGAAAGTT
GCCGGGGAAAAAATCACGGTCACTTTCAACATTAACAACAGCATCCCAACACATTTGATGGTGAGGAGGAACCC
TCGCAAGGGCAGAAGGTTGAAGAACAGGAGCCTGAACTGACATCAACTCCCAATTTCTGTGGTTGAAGTTATAAAG
AATGATGATGGCAAGAAGGCCCTTGTGTTGGACTGTGCTATTATCCAGAGGATGAGGTTGGACAAGAAGACGAGGCT
GAGAGTGACATCTTCTCTATCAGGGAAGTTAGCTTTTCACTCCACTGGCGAGTCTGAATGGAAGGATACTAATTAT
ACACTCAACACAGATTCTTGGACTGGGCTTATATGACCACCTAATGGATTTCTTGGCCAGCGAGGGTGGAC
AACACTTTTGCAGATGAGCTGGTGGAGCTCAGCACAGCCCTGGAGCACCAGGAGTACATTACTTTCTTGAAGAC
CTCAAGAGTTTTGTCAAGAGCCAGTAGAGCAGACAGATGCTGAAAGCCATAGTTTCATGGCAGGCTTTGGCCAGT
GAACAAATCCTACTCTGAAGCTAGACATGTGCTTTGAAATGATTATCATCCTAATATCATGGGGGAAAAAATACC
AAATTTAAATTATATGTTTTGTGTTCTCATTATTTATCATTTTTTTCTGTACAAATCTATTATTTCTAGATTTTT
GTATAACATGATAGACATAAAATTGGTTTATCTCCTCCGCTGAGTCTTCTAGAAAGTACCTGCTGGGTTCTCAGT
TCCAGTTCCCATCCTTTGATTGATCACTCTCCCTGACATCCACCTGTATGACTTTGTCACCAAATGCTGTCTTCT
CTTCTCCAATCAAGAAATAATAATCCCTCGAGTTTACAAAACAAAAAAAAAAAAAAAAA

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FIGURE 749

MLPLLRCVPRVLGSSVAGLRAAAPASPFRLQLQPAPRLCTRPFGLLSVRAGSERRPGLLRPRGPCACGCGGSLH
TDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPTFDGEEEPS
QGQKVEEQEPELTSTPNFVVEVIKNDDGKKALVLDCHYPEDEVGQEDAESESDIFSIREVSFQSTGESEWKDTNYT
LNTDSLWDALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKSFVKSQ

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FIGURE 750

TGGACTTGGATCCGAGGCAGACGAGGAAGCTGAGAAAACCTGGCGTTGACCCCGTGGACCTGGGCGCCCCGGGA
AGGTCCAGCGCTTGGTCCAGGCAGGCGGGGATGTGCGGTGACCACCCTGGTCCTGAAAAGTCCAGCCCCGAATCT
CCCTCCCTCCTAGACCTGGAGGCCTGGAACAGCCAGCCGCCACGGACGCCAGAGCCGGGAACCCCTGACGGCACT
TAGCTGCTGACAAACAACCTGCTCCGTGGACGCCTGAAACACCAGTCTTTGGGGCCAGTGCCTCAGTTTCAATCC
AGGTAACCTTTAAATGAAACTTGCCTAAAATCTTAGGTCTATACAGAAAGAGACTCCAATCGACAAGAAGCTGGA
AAAGAATGATGTTGTCTTAAACAACCTACAGAATATCATCTATAACCCGGTAATCCCGTATGTTGGCACCATTCC
CCGATCAGCTGGATCCTGGAACCTTTGATTGTGATATGTGGGCATGTTCTAGTGACGCAGACAGATTCCAGGTGG
ATCTGCAGAAATGGCAGCAGTGTGAAACCTCGAGCCGATGTGGCCTTTTCAATTCCTCGTTTCAAAGGGCCG
GCTGCATTGTTTGCAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCACCTATGACACGCCTTTCAAAA
GAGAAAAGTCTTTTGAGATCGTGATTATGGTGCTAAAGGACAAATTCCAGGTGGCTGTAAATGGAAAACATACTC
TGCTCTATAGGCCACAGGATCGGCCAGAGAAAATAGACACTCTGGGCATTTATGGCAAAGTGAATATTTACTCAA
TTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCAAGCATCTAGTCTGGAAGTACAGAGATAAGTAGAGAAA
ATGTTCCAAAGTCTGGCACGCCCCAGCTTCAGACTGTCTCTCCCTCCTGGGATTTACAGGGTCATGGCTCTGAAA
CATTCTGTAGTGTTCTTTGGACACGAGTTTTCTGGAGATCGCTTCTGCAGGCCTATTGGTCTGACTGTGGCTT
CTTTTCAGAGCCTGCCATTGCTGCAAGGTTGAACACCCCATGGGCCCTGGACGAAGTGTGCTCGTTAAAGGAG
AAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGGATATTGCTCTACACTTGA
ACCCACGCCTGAATATTAAAGCATTGTGAAGAAATTTCTTTCTTCAGGAGTCTGGGGAGAAGAAGAGAGAAATA
TTACCTCTTTCCCATTTAGTCTGGGATGTACTTTGAGATGATAATTTACTGTGATGTTAGAGAAATTCAGGTTG
CAGTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGACACGCTGGAAATTA
ATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTACAAAAACCAAATACAGA
ATGGCTTCTGTGATACTGGCCTTGCTGAAACGCATCTCACTGTCACTTCTATTGTTTATATTGTTAAATGAGCTT
GTGCACCATTAGATCCTGCTGGGTGTTCTCAGTCCTTGCCATGAAGTATGGTGGTGTCTAGCACTGAATGGGGAA
ACTGGGGGCAGCAACACTTATAGCCAGTTAAAGCCACTCTGCCCTCTCTCCTACTTTGGCTGACTCTTCAAGAAT
GCCATTCAACAAGTATTTATGGAGTACCTACTATAATACAGTAGCTAACATGTATTGAGCACAGATTTTTTTTGG
TAAACTGTGAGGAGCTAGGATATATACTTGGTGAAACAAACCAGTATGTTCCCTGTTCTCTTGAGCTTCGACTC
TTCTGTGCTCTATTGCTGCGCACTGCTTTTTCTACAGGCATTACATCAACTCCTAAGGGGTCTCTGGGATTAGT
TAAGCAGCTATTAAATCACCCGAAGACACTAATTTACAGAAGACACAACCTCCTTCCCCAGTGATCACTGTCATAA
CCAGTGCTCTACCGTATCCCATCACTGAGGACTGATGTTGACTGACATCATTTTTATCGTAATAAACATGTGGCTC
TATTAGCTGCAAGCTTTACCAAGTAATTGGCATGACATCTGAGCACAGAAATTAAGGCAAAAAACCAAAGCAAAA
CAAATACATGGTGCTGAAATTAACCTTGATGCCAAGCCCAAGGCAGCTGATTTCTGTGTATTTGAACTTAGGGCAA
ATCAGAGTCTACACAGACGCCTACAGAAAGTTTCAGGAAGAGGCAAGATGCATTCAATTTGAAAGATATTTATGG
GCAACAAAGTAAGGTGAGGATTAGACTTCAGGCATTCTAAGGCAGGCACTATCAGAAAGTGTACGCCAACTAAG
GGACCCACAAAGCAGGCAGAGGTAATGCAGAAATCTGTTTTGTTCCCATGAAATCACCAATCAAGGCCTCCGTTT
TTCTAAAGATTAGTCCATCATCATTAGCAACTGAGATCAAAGCACTCTTCCACTTTACGTGATTAAATCAAACC
TGTATCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 751

MLSLNNLQNI IYNPVI PYVG TIPDQLDPGTLIVICGHVPSDADR FQVDLQNGSSVKPRADVAFHFNPRFKRAGCI
VCNTLINEK WGREEITYDTPFKREKSFEIVIMVLKDKFQAVNGKHTLLYGHRIGPEKIDTLGIYGKVNIHSIGF
SFSSDLQSTQASSLELTEISRENVPKSGTPQLQTVSPSWDLQGHGSETFCSVLWTRVFLEIAFCRPIGLTVASFQ
SLPFAARLNTPMGPGR TVVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRLNIKAFVRNSFLQESWGEEERNITS
FPFSPGMYFEMIIYCDVREFKVA VNGVHSLEYKHRFKELSSIDTLEINGDIHLLEVR SW

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FIGURE 752

GGGGCCCATTCGTGTTTCAGCCAGTCGCCAAGAATCATGAAGTCGCCAGTGGCAGCACCGCCACCGCCGCGCGG
GCCCCAGCTGCGCGCTGAAGGCCGGCAAGACAGCGAGCGGTGCGGGCGAGGTGGTGCGCTGTCTGTCTGAGCAGA
GCGTGGCCATCTCGCGCTGCCGGGGCGCCGGGGCGCGCCTGCCTGCCCTGCTGGACGAGCAGCAGGTAAACGTGC
TGCTCTACGACATGAACGGCTGTTACTCACGCCTCAAGGAGCTGGTGCCCACCCTGCCCCAGAACCGCAAGGTGA
GCAAGGTGGAGATTCTCCAGCACGTCACTACATCAGGGACCTTCAGTTGGAGCTGAACTCGGAATCCGAAG
TTGGGACCCCCGGGGGCCGAGGGCTGCCGGTCCGGGCTCCGCTCAGCACCCCTCAACGGCGAGATCAGCGCCCTGA
CGGCCGAGGCGGCATGCGTTTCTGCGGACGATCGCATCTTGTGTGCTTGAAGCGCCTCCCCAGGGACCGGCGGA
CCCCAGCCATCCAGGGGGCAAGAGGAATTACGTGCTCTGTGGGTCTCCCCAACGCGCCTCGCCGGATCTGAGGG
AGAACAAGACCGATCGGCGGCCACTGCGCCCTTAAGTGCATCCAGCCTGGGGCTGAGGCTGAGGCACTGGCGAGG
AGAGGGCGCTCCTCTCTGCACACCTACTAGTCACCAGAGACTTTAGGGGGTGGGATTCCACTCGTGTGTTTCTAT
TTTTTGAAAAGCAGACATTTTAAAAAATGGTCACGTTTGGTGCTTCTCAGATTTCTGAGGAAATTGCTTTGTATT
GTATATTACAATGATCACCGACTGAGAATATTGTTTACAATAGTTCTGTGGGGCTGTTTTTTTGTATTAAACA
AATAATTTAGATGGTGAAAAAAAAA

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FIGURE 753

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRCRGAGARLPALLDEQQVNVLLYDMNGCYSRL
KELVPTLPQNRKVKVEILQHVIDYIRDLQLELNSESEVGTPGGRGLPVRAPLSTLNGEISALTAEAAACVPADDR
ILCR

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FIGURE 754

CCTGCTCCAAGGTCCAGAGAGCTTTCTGGTCTTTGCAGCAGGCCTGCCGCCTTCATGTCCTCTCCTCATCAAT
CAGCCCCAGTATGCGTGGCTGAAAGAGCTGGGGCTCCGCGAGGAAAACGAGGGCGTGATAATGGAAGCTGGGGA
GGCCGGGAGAGGTTATTACGACCTATTGCCCCGCTAACAAACGAGCCAATAGCAAGAGTCCGACAGGCCAGTGTG
GCAGACTATGAAGAACTGTAAAGAAAAGCAAGAGAAGCATGGAAAATCTGGGCAGATATTCCTGCTCCAAAACGA
GGAGAAATAGTAAGACAGATTGGCGATGCCTTGCGGGAGAAGATCCAAGTACTAGGAAGCTTGGTGTCTTTGGAG
ATGGGGAAAATCTTAGTGGAAGGTGTGGGTGAAGTTCAGGAGTATGTGGATATCTGTGACTATGCTGTTGGTTTA
TCAAGGATGATTGGAGGACCTATCTTGCCCTTCTGAAAGATCTGGCCATGCACTGATTGAGCAGTGGAATCCCGTA
GGCCTGGTTGGAATCATCACGGCATTCAATTTCCCTGTGGCAGTGTATGGTTGGAACAACGCCATCGCCATGATC
TGTGGAAATGTCTGCCTCTGGAAGGAGCTCCAACCCTTCCCTCATTAGTGTGGCTGTCAAAAGATAATAGCC
AAGGTTCTGGAGGACAACAAGCTGCCTGGTGCAATTTGTTCCCTTGACTTGTGGTGGAGCAGATATTGGCACAGCA
ATGGCCAAAGATGAACGAGTGAACCTGCTGTCTTCACTGGGAGCACTCAGGTGGGAAAACAGGTGGGCCTGATG
GTGCAGGAGAGGTTTGGGAGAAGTCTGTTGGAACCTGGAGGAAACAATGCCATTATTGCCTTTGAAGATGCAGAC
CTCAGCTTAGTTGTTCCATCAGCTCTCTCGCTGCTGTGGGAACAGCTGGCCAGAGGTGTACCACTGCGAGGCCA
CTGTTTATACATGAAAGCATCCATGATGAGGTTGTAAACAGACTTAAAAAGGCCTATGCACAGATCCGAGTTGGG
AACCCATGGGACCCTAATGTTCTCTATGGGCCACTCCACACCAAGCAGGCAGTGAGCATGTTTCTTGAGCAGTG
GAAGAAGCAAAGAAAGAAGGTGGCACAGTGGTCTATGGGGGCAAGGTTATGGATCGCCCTGGAATTTATGTAGAA
CCGACAATTGTGACAGGTCTTGCCACGATGCGTCCATTGCACACACAGAGACTTTCGCTCCGATTCTCTATGTC
TTTAAATTCAGAATGAAGAAGAGGTCTTTGCATGGAATAATGAAGTAAACAGGGACTTTCAAGTAGCATCTTT
ACCAAAGATCTGGGCAGAATCTTTCGCTGGCTTGACCTAAAGGATCAGACTGTGGCATTGTAAATGTCAACATT
CCAACAAGTGGGGCTGAGATTGGAGGTGCCTTTGGAGGAGAAAAGCACACTGGTGGTGGCAGGGAGTCTGGCAGT
GATGCCTGGAAACAGTACATGAGAAGGTCTACTTGTACTATCAACTACAGTAAAGACCTTCCTCTGGCCCAAGGA
ATCAAGTTTCAGTAAAGGTGTTTTAGATGAACATCCCTTAATTTGAGGTGTTCCAGCAGCTGTTTTTGGAGAAGA
CAAAGAAGATTAAAGTTTTCCCTGAATAAATGCATTATTATGACTGTGACAGTACTAATCCCCCTATGACCCCA
AAGCCCTGATTAAATCAAGAGATTCCCTTTTTTAAAAATCAAATAAAATTGTTACAACATAGCCATAGTTACTAA
AAAAA

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FIGURE 755

MSTLLINQPQYAWLKEGLREENEGVYNGSWGGRGEVITTYCPANNEPIARVRQASVADYEETVKKAREAWKIWA
DIPAPKRGEIVRQIGDALREKIQVLGSLVSLEMGIKILVEGVGEVQEYVDICDYAVGLSRMIGGPILPSERSGHAL
IEQWNPVGLVGIITAFNFPVAVYGWNNAIAMICGNVCLWKGAPTTSLISVAVTKIIAKVLEDNKLPGAICSLTCG
GADIGTAMAKDERVNLLSFTGSTQVGKQVGLMVQERFGRSLELGGNNAI IAFEDADLSLVVPSALFAAVGTAGQ
RCTTARRLFIHESIHDDEVNRLKKAYAQIRVGPNWDPNVLYGPLHTKQAVSMFLGAVEEAKKEGGTVVYGGKVMD
RPGNYVEPTIVTGLGHDASIAHTETFAPILYVFKFKNEEEVFAWNNNEVKQGLSSSIFTKDLGRIFRWLGPKGSDC
GIVNVNIPTSGAEIGGAFGGEKHTGGGRESGSDAWKQYMRRSTCTINYSKDLPLAQGIKFQ

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FIGURE 756A

TCCACTCCTGGAGCCCGCGGACCCCGAGCAGCGCCTGACAGCCCCTGCTGGCCCGGCGCGCGGGCGTCGCCAGGC
CAGCTATGGCCCCCGACCCGGTGGCCGCCGAGACCGCGGGCTCAGGGACCTACCCGCGCTACTTCACCTGGGACG
AGGTGGCCAGCGCTCAGGGTGCAGGAGCGGTGGCTAGTGATCGACCGTAAGGTGTACAACATCAGCGAGTTCA
CCCGCCGGCATCCAGGGGGCTCCCGGGTCATCAGCCACTACGCCGGGCAGGATGCCACGGATCCCTTTGTGGCCT
TCCACATCAACAAGGGCCTTGTGAAGAAGTATATGAACTCTCTCCTGATTGGAGAAGTGTCTCCAGAGCAGCCCA
GCTTTGAGCCCAACAAGAATAAAGAGCTGACAGATGAGTTCCGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGC
TCATGAAGGCCAACCATGTCTTCTTCTGCTGTACCTGCTGCACATCTTGCTGCTGGATGGTGCAGCCTGGCTCA
CCCTTTGGGTCTTTGGGACGTCTTTTTGCCCTTCTCCTCTGTGCGGTGCTGCTCAGTGCAGTTCAGGCCCAGG
CTGGCTGGCTGCAGCATGACTTTGGGCACCTGTGCGTCTTCAGCACCTCAAAGTGGAACCATCTGCTACATCATT
TTGTGATTGGCCACCTGAAGGGGGCCCCGCCAGTTGGTGGAACCACATGCACTTCCAGCACCATGCCAAGCCCA
ACTGCTTCCGCAAAGACCCAGACATCAACATGCATCCCTTCTTCTTTGCCCTTGGGGAAGATCCTCTCTGTGGAGC
TTGGGAAACAGAAGAAAAATATATGCCGTACAACCACCAGCACAAATACTTCTTCTTAATTGGGCCCCCCAGCCT
TGCTGCCTCTCTACTTCCAGTGGTATATTTTCTATTTTGTATCCAGCGAAAGAAGTGGGTGGACTTGGCCTGGA
TGATTACCTTCTACGTCCGCTTCTTCTCACTTATGTGCCACTATTGGGGCTGAAAGCCTTCTTGGGCCTTTTCT
TCATAGTCAGGTTCTTGAAAGCAACTGGTTTGTGTGGGTGACACAGATGAACCATATTCCCATGCACATTGATC
ATGACCGGAACATGGACTGGGTTTCCACCCAGCTCCAGGCCACATGCAATGTCCACAAGTCTGCCTTCAATGACT
GGTTCAGTGGACACCTCAACTTCCAGATTGAGCACCATCTTTTTCCACGATGCCTCGACACAATTACCACAAAG
TGGCTCCCCTGGTGCAGTCCTTGTGTGCCAAGCATGGCATAGAGTACCAGTCCAAGCCCCCTGCTGTGAGCCTTCCG
CCGACATCATCCTCACTCACTAAAGGAGTCAGGGCAGCTCTGGCTAGATGCCTATCTTCACCAATTAACAACAGCCAC
CCTGCCCAGTCTGGAAGAAGAGGAGGAAGACTCTGGAGCCAAGGCAGAGGGGAGCTTGAGGGACAATGCCACTAT
AGTTTAATACTCAGAGGGGGTTGGGTTTGGGGACATAAAGCCTCTGACTCAAACCTCCTCCCTTTTATCTTCTAGC
CACAGTTCTAAGACCCAAAGTGGGGGGTGGACACAGAAGTCCCTAGGAGGGAAGGAGCTGTTGGGGCAGGGGTGT
AAATTATTTCTTTTTTCTAGTTTGGCACATGCAGGTAGTTGGTGAACAGAGAGAACCAGGAGGGTAACAGAAGAG
GAGGGACCTACTGAACCCAGAGTCAGGAAGAGATTTAACAATAAAATTCCACTCATGCCGGGCGTGGTGGCACGC
GCCTGTAATCCCAGCTACCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCGGGGAGGTGGAGGTTGCAGTGAGC
TGAGATCACGCCATTGTACTCCAGCCTGGGCGACAGAGCAAGACTCCATTTCAAAAAAAAAAAAAAAAAATCCACTC
ATATAAAAGGTGAGCTCAGCTCACTGGTCCATTTCTCAGTGGCTTCTCCATCCTCATTTGCAACCTCAGAGGGA
TAAGGCAGTTGAACCTGATGAGCAAGAATTATAACAGCAAGGAAACATTAATGCTTAGAATTCTGAGATCCAGCA
CAACTCAGTCTGTGGGAGCTCAGCTCGCTGCCCAGGGATAGGTATGACCTATGTCTGCCTTAGGCTGCTGGGAGA
TGCCATTCTCCAGTTTCAAGAAGCAGGCAGGGCAAAGGTCAAGACTGTGGTATTGGGGTCTTTTGGCTCTGAAGGA
TCCTGGAACCACTGATTTTGGTTTATTCCCTCCAGGGTCTAAAGAGAACAAGAGGTGCTAGCTCTTACCAAAACA
GATGGTAGAGAGAGTTGCTGGCTATTTAAAAAGCTCTTTCATCTTTTAATTCACCTCTTCTTTTACCTCTTTAA
CCACTCCTCAGGAACAGAACACTTCTAGGACTGGGGTCTTTTAGCTCCATAAGCAAGTGAGCAGATGGGACAAG
TTAGTCTTTTCTCCCTAGAAACAAAGGGGATGCCAGTGGTTTCCCTTTGCTTCCCAACCTAAAATTTCAAGTTT
AATAAAATAGCAATTAGCAGAAGTGACCAAATTGGGAGATAATTATCAGTCATGAGGAAAGACACAGATTTCCGGT
CATAAAGAATGTAAGGGCTATAAGTAGAACTTTCTATAACCTAAATGATGTTATAGAATTATTTTGGAGCAGGA
GCAGAAAGATTAAATATGATCACTTCTACTTCTAAATCAGAAATAGGAAGATTAAACCACAGAACAGTTTGTG
ATTTCTATTGCTGTAGCTAGGTATCTTACTCTGTCCACTCTTGTTCAAGTATCTAACTCTTCTGGAAACCAAATA
GGCTTTAGAAGAGATTATCCTATATTCTATCAGTATAATACTAAAATGTAACCTTTTAAATCATCTGGTTTTTAA
AAGATAAACAGTTTAGCCCATCTCTCCAGAGAGCAAACATAGGAATATGACTCAGGAGCCTCCTAGGGCTTATCA
TCAGCCCTCACACCCGCTTCCCCCTCAACCCACAGCCTTTGCTTCCAGGTGGCAGGATTACTACTTTGCCTCTT
CAGCAGCATCTACTCTAGGCATATTGATCATTTTAGACACTGGGAGAAGAGAACCTCAAACCTAGGAGGAAAAGAC
AGAGCCTCCACTTAGTTTTGGGAGGGGATGGCAGACAGTCAAGGAGATGAGCGTCCTAAGGCATGTTGGGATAGG
GTCAGATGCACCCCATGGAGAGGTTTGTCAACACAAAGACATGGAAGGTTAGAGGTTTGTCAACAAAAAGACA
TGGAAGGTTAGGTTTGTCAACACAAAGACATGGAAGATTAGAGGTTTGTCAACACAAAGACACAGGAAGAATGGG
CTGCAGAAGATTTAGATGTTTTCCATTTGGGCACATTTTACTTAGCTGGAGAAGTGGTTTAAACAGCCTGGGT
AGGAAAATTAGAAGCAAGCTGGATGCAGTGGCTCATGCCTGTAATCCCAACACTTTTGGGAGGTCCAGGCAGGAG
GATCACTTGGGCCAGGAGGTCAAGCCTGCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTGGGGTGATAGA

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FIGURE 756B

ACAAGACCCTGTCTCAAAAAAAAAAAAAAAAAACAACAAAACTTAGAATTGAGGAGTTGTACCTCCATTGGCTTCCT
CACTCCAAAATAGGTGCTGATCCTTCCTATTCTATTCTTTGCCACCTTTTGGGTGTGGTGTACCAGCCTGTTT
AGCCAAGTAGCTTTGGGCATAGGCTGCCCAATCTGAGCAAACACCAGTGAGGCTCTATTGAGCCAAGACCAAGTC
CTCAAAGCACCTGAACCACTGTGGCCTTCTCAGCCTACAGCAGTGTTGGTCTCTTACATGGCCACAAAGGGACACA
CAGTGACAAAAGGCTCGGAATGTTACAATGGTAAAATGAGTGATCTCAAATCCACTGACAGATATAAAATAGGCT
TAGAGAGGAAAAGCTGCCTCTGGTCAAGTAGATCATGGCAGCATGAATTCCAACCTCACTTTTTTACAACCTCCAAC
TTCTATGTTTATCTTTGTTACTTTCACTTTTTTACAACCTGGCCAGAGGCATTTTTTAAATCAGGCCCAATATCA
GTATTCTTTTTGTGTGTGCCAATTTTGTTATCACATCCCTATGAAGTTGAAAAATAAAGTTAATTTTGACCAAAA
AAAAAAAAAAAAAG

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FIGURE 757

MAPDPVAAETAAGPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPPGGSRVISHYAGQDATDPFVAFH
INKGLVKKYMNSLLIGELSPEQPSFEPTKNKELTDEFREL RATVERMGLMKANHVFFLLYLLHILLDDGAAWLTL
WVFGTSFLPFLLCAVLLSAVQAQAGWLQHDFGHLSVFSKWNHLLHHFVIGHLKGAPASWWNHMHFQHHAKPNC
FRKDPDINMHPFFALGKILSVELGKQKKKYPYNHQBHYFFLIGPPALLPLYFQWYIFYFVIQRKKWVDLAWMI
TFYVRFFLTYPVLLGLKAFLGLFFIVRFLESNWFVWVTQMNHHPMHIDHDRNMDWVSTQLQATCNVHKSANDF
SGHLNFQIEHHLFPTMPRHNYHKVAPLVQSLCAKHGIEYQSKPLLSAFADIIHSLKESGQLWLDAYLHQ

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FIGURE 758

GGTTTCCGGAGCTGCGGCGGCGCAGACTGGGAGGGGAGCCGGGGGTTCGACGTGCGAGCCGAGGGAACAAGCC
CCAACCGGATCCTGGACAGGCACCCCGGCTTGGCGCTGTCTCTCCCCCTCGGCTCGGAGAGGCCCTTCGGCCTGA
GGGAGCCTCGCCGCCCCGTCCCCGGCACACGCGCAGCCCCGGCCTCTCGGCCTCTGCCGGAGAAAACAGGATGGCCC
AATGGAATCAGCTACAGCAGCTTGACACACGGTACCTGGAGCAGCTCCATCAGCTCTACAGTGACAGCTTCCCAA
TGGAGCTGCGGCAGTTTCTGGCCCCCTTGGATTGAGAGTCAAGATTGGGCATATGCGGCCAGCAAAGAATCACATG
CCACTTTGGTGTTCATAATCTCCTGGGAGAGATTGACCAGCAGTATAGCCGCTTCCTGCAAGAGTCGAATGTTT
TCTATCAGCACAAATCTACGAAGAATCAAGCAGTTTCTTCAGAGCAGGTATCTTGAGAAGCCAATGGAGATTGCC
GGATTGTGGCCCGGTGCCTGTGGGAAGAATCACGCCTTCTACAGACTGCAGCCACTGCGGCCAGCAAGGGGGCC
AGGCCAACACCCACAGCAGCCGTGGTGACGGAGAAGCAGCAGATGCTGGAGCAGCACCTTCAGGATGTCCGGA
AGAGAGTGAGGATCTAGAACAGAAAATGAAAGTGGTAGAGAATCTCCAGGATGACTTTGATTTCACATATAAAA
CCCTCAAGAGTCAAGGAGACATGCAAGATCTGAATGGAAACAACAGTCAGTGACCAGGCAGAAGATGCAGCAGC
TGGAACAGATGCTCACTGCGCTGGACCAGATGCGGAGAAGCATCGTGAGTGAGCTGGCGGGGCTTTTGTGAGCGA
TGGAGTACGTGCAGAAAACCTCTCACGGACGAGGAGCTGGCTGACTGGAAGAGGCGGCAACAGATTGCCTGCATTG
GAGGCCCGCCCAACATCTGCCTAGATCGGCTAGAAAACCTGGATAACGTCATTAGCAGAATCTCAACTTCAGACCC
GTCAACAAATTAAGAAAACCTGGAGGAGTTGCAGCAAAAAGTTTCTACAAAGGGGACCCCATTTGTACAGCACCGGC
CGATGCTGGAGGAGAGAATCGTGGAGCTGTTTAGAAAACCTTAATGAAAAGTGCCTTTGTGGTGGAGCGGCAGCCCT
GCATGCCCATGCATCCTGACCGGCCCTCGTCATCAAGACCGGCGTCCAGTTCATACTAAAGTCAGGTTGCTGG
TCAAAATTCCTGAGTTGAATTATCAGCTTAAATTAAGTGTGCATTGACAAAGACTCTGGGGACGTTGCAGCTC
TCAGAGGATCCCGGAAATTTAACATCTGCGGCACAAACACAAAAGTGATGAACATGGAAGAATCCAACAACGGCA
GCCTCTCTGCAGAATTCAAACACTTGACCCTGAGGGAGCAGAGATGTGGGAATGGGGGCGGAGCCAATTGTGATG
CTTCCCTGATTGTGACTGAGGAGCTGCACCTGATCACCTTTGAGACCGAGGTGTATCACCAAGGCCTCAAGATTG
ACCTAGAGACCCACTCCTTGCCAGTTGTGGTGATCTCCAACATCTGTGAGATGCCAAATGCCTGGGCGTCCATCC
TGTGGTACAACATGCTGACCAACAATCCCAAGAATGTAACTTTTTTACCAAGCCCCCAATTGGAACCTGGGATC
AAGTGGCCGAGGTCTGAGCTGGCAGTTCTCCTCCACCACCAAGCGAGGACTGAGCATCGAGCAGCTGACTACAC
TGGCAGAGAACTCTTGGGACCTGGTGTGAATTATTCAGGGTGTGAGATCACATGGGCTAAATTTTGCAAAAGAAA
ACATGGCTGGCAAGGGCTTCTCCTTCTGGGTCTGGCTGGACAATATCATTGACCTTGTGAAAAAGTACATCCTGG
CCCTTTGGAACGAAGGGTACATCATGGGCTTTATCAGTAAGGAGCGGGAGCGGGCCATCTTGAGCACTAAGCCTC
CAGGCACCTTCTGTGTAAGATTAGTGAAAGCAGCAAAGAAGGAGGCGTCACTTTCACTTGGGTGGAGAAGGACA
TCAGCGGTAAGACCCAGATCCAGTCCGTGGAACCATACACAAAGCAGCAGCTGAACAACATGTGATTTGCTGAAA
TCATCATGGGCTATAAGATCATGGATGCTACCAATATCCTGGTGTCTCCACTGGTCTATCTCTATCCTGACATTC
CCAAGGAGGAGGCATTCCGAAAGTATTGTGCGGCCAGAGAGCCAGGAGCATCCTGAAGCTGACCCAGGCGCTGCC
CATACCTGAAGACCAAGTTTATCTGTGTGACACCAACGACCTGCAGCAATACCATTGACCTGCCGATGTCCCCC
GCACCTTAGATTCAATTGATGCAGTTTGGAAATAATGGTGAAGGTGCTGAACCCTCAGCAGGAGGGCAGTTTGAGT
CCCTCACCTTTGACATGGAGTTGACCTCGGAGTGCGCTACCTCCCCCATGTGAGGAGCTGAGAACGGAAGCTGCA
GAAAGATACGACTGAGGCGCCTACCTGCATTCTGCCACCCCTCACACAGCCAAACCCAGATCATCTGAAACTAC
TAACCTTTGTGGTTCCAGATTTTTTTTTTAATCTCCTACTTCTGCTATCTTTGAGCAATCTGGGCACTTTTAAAAATA
GAGAAATGAGTGAATGTGGGTGATCTGCTTTTATCTAAATGCAAATAAGGATGTGTTCTCTGAGACCCATGATCA
GGGATGTGGCGGGGGGTGGCTAGAGGGGAGAAAAAGGAAATGTCTTGTGTTGTTTTGTTCCCTGCCCTCCTTTC
TCAGCAGCTTTTTGTTATTGTTGTTGTTGTTCTTAGACAAGTGCCTCCTGGTGCCTGCGGCATCCTTCTGCCTGT
TTCTGTAAGCAAATGCCACAGGCCACCTATAGCTACATACTCCTGGCATTGCACTTTTTTAACCTTGCTGACATCC
AAATAGAAGATAGGACTATCTAAGCCCTAGGTTTCTTTTTAAATTAAGAAATAATAACAATTAAGGGGCAAAAAA
CACTGTATCAGCATAGCCTTTCTGTATTTAAGAACTTAAGCAGCCGGGCATGGTGGCTCACGCCTGTAATCCCA
GCACCTTTGGGAGGCCGAGGCGGATCATAAGGTGAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTC
TCTACTAAAAGTACAAAAAATTAGCTGGGTGTGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGC
AGGAGAATCGCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAAATTGCACCACTGCACACTGCACTCCATCC
TGGGCGACAGTCTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 759

MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATLVFHNLLGEIDQQYSRFLQES
NVLYQHNLRRIKQFLQSRYLEKPMETARIVARCLWEESRLLQTAATAAQGGQANHPTAAVVTEKQQMLEQHLQD
VRKRVQDLEQKMKVVENLQDDDFNYKTLKSQGDMDLNGNNSVTRQKMQQLEQMLTALDQMRRSIVSELAGLL
SAMEYVQKTLTDEELADWKRRQIACIGGPPNICLDRLNWNITSLAESQLQTRQQIKKLEELQQKVSYPKGDPIVQ
HRPMLERIVELFRNLKMSAFVVERQPCMPMHPDRPLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDV
AALRGSRKFNILGTNTKVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEVYHQGL
KIDLETHSLPVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVLWSQFSSTTKRGLSIEQL
TTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGFSEFWVLDNIIDLKVKYILALWNEGYIMGFISKERERAILST
KPPGTFLLRFSSESSKEGGVTFTWVEKDISGKTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNILVSPLVYLYP
DIPKEEAFGKYCRPESQEHPEADPGSAAPYLKTKFICVTPTTCSNTIDLPMSPRTLDSLMOFGNNGEGAEPSSAGG
QFESLTFDMELTSECATSPM

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FIGURE 760

GACTACATCGATGCGCAGTTTGAAAATTATCTGCAGGAGGAGCTGAAGATCCGCCGCTCGCTCTTCGACTACCAT
GACACAAGGATCCACGTTTGCCCTCTACTTCATCACGCCCACAGGGCACTCCCTGAAGTCTCTAGATCTAGTGACC
ATGAAGAAACTAGACAGCAAGGTGAACATTATTCCCATCATCGCCAAGGCTGACACCATCTCCAAGAGCGAGCTC
CACAAGTTCAAGATCAAGATCATGGGCGAGTTGGTCAGCAACGGGGTCCAGATCTACCAGTTCCCCACGGATGAT
GAGGCTGTTGCAGAGATTAACGCAGTCATGAATGCACATCTGCCCTTTGCCGTGGTGGGCAGCACCCGAGGAGGTG
AAGGTGGGGAACAAGCTGGTCCGAGCACGGCAGTACCCCTGGGGAGTGGTGCAGGTGGAGAATGAGAATCACTGC
GACTTCGTGAAGCTGCGGGAGATGTTGATCCGGGTGAACATGGAAGACCTCCGCGAGCAGACCCACAGCCGGCAC
TACGAGCTCTACCGGCGCTGCAAGTTGGAGGAGATGGGCTTTTCAGGACAGCGATGGTGACAGCCAGCCCTTCAGC
CTACAAGAGACATACGAGGCCAAGAGGAAGGAGTTCTTAAGTGAGCTGCAGAGGAAGGAGGAAGAGATGAGGCAG
ATGTTTGTCAACAAAGTGAAGGAGACAGAGCTGGAGCTGAAGGAGAAGGAAAGGGAGCTCCATGAGAAGTTTGAG
CACCTGAAGCGGGTCCACCAGGAGGAGAAGCGCAAGGTGGAGGAAAAGCGCCGGGAAGTGGAGGAGGAGACCAAC
GCCTTCAATCGCCGGAAGGCTGCGGTGGAGGCCCTGCAGTCGCAGGCCCTTGACGCCACCTCGCAGCAGCCCTTG
AGGAAGGACAAGGACAAGAAGAATTAACGCACGCACAGACTTACATGTCAAGAGTGGACTTTAGACTTTTCATGTG
TTAAGTTGCTTGAGTTACACCTTGTGACCCTTCTCCATAACATGGTGTGAGGACGGACTGGGAGCCGGTACAGA
CTCCAGTGTTTACAGCCTTGCTTTCTCCACCGACCTGGCCCCAGGCTGCCCCGGGCTGGCGGGCCACCCCT
CTCTATGCAAAACACGTAAAAGCCATGAATGCTGGAATCCAAAACCTGACGAGGTTTATTTTTTTCAGAGCCAGTGG
CTGGTCTTCCATTTACAGTGTCACTATTCCCTGACGGAGCTGTTATGTGCCGCTCTAGCGAAGGCCCCAGCCGGG
ATGCTAGGCCTAATTGTTTCAGCGTGGAGATGGCAACTCACGTGGTGCCCTAGGTGCAGCTGCGTGGTCTGGTATA
CATGCTGCAAAATTCACCCAGTTCCCTCATTTTAATTTTTCTAACCTACAGCTTAATTTTAATAACTTTAAAC
ACTTCTAAATATTTATTTTGGCACCAGCGTCAAGACAAATAATATCCTCTCCCATTTTTCATAAGTAACACAG
ATTCCCTGATTTTTTAAAAACTAAAAATACAGCTAAACCTTTCTTATGTATAAAGTATGCCTATCATATACAGGGA
GAGGTGGGTAATAAACTTCCTGTAATGACAAAAAAAAAAAAAAAAA

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FIGURE 761

MKKLDSKVNIIPIIAKADTISKSELHKFKIKIMGELVSNGVQIYQFPTDDEAVAEINAVMNAHLPFVVGSTEEV
KVGNKLVRRARQYPWGVVQVENENHCDFVKLREMLIRVNMEDLREQTHSRHYELYRRCKLEEMGFQSDGDSQPFS
LQETYEAKRKEFLSELQRKEEEMRQMFVNKVKETELKEKERELHEKFEHLKRVHQEEKRKVEEKRRELEETN
AFNRRKAAVEALQSQUALHATSQQPLRKDKDKKN

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FIGURE 762

AGAGAGGAGCCGACTCGGCAGGGAAGTGGGGACCGGGCCGAGAGTGCGAGCGAGCGAGGGAGGGAGTGAGGGAGC
GTGCGAGCCAGAAGGGGAAAGGCGGCCACTCGTGCCGTAGCGAGCCGACAGAGGGGAGTGGGAGCAGTGGGGTAAAG
GAGCGGGGGGCGGGAATAAGAAAGGCCGAGAGAAGGCGGACAGAGGGCTAGTGGTGGTGGTGGTGGTAGGGGGAGA
AGGAGGAGCTGGAGGAGGGCAGGGGCTGAGGGAGTGAGTGAAGCGGACGCGCGAGGGAGGGGAGGGGAAGGGAAGG
GAAGGGAAGGGGGGGTACGCGGGGGCGCGCGCGCACCGGGAGCGCGCTCGGAGGCGAGTGGAACTGGATCGG
GTTTGTGCCAGCGGCGTGAGCTTCGGCCGCCATTTTACAACAGCTCCACTCGCGCCGACACAGGGAGCAGCGA
GCACGCGTTTTCCCGCAACCCGATACCATCGGACAGGATTTCTCCGCTCAGCCCAACGGGGAGATCTCTGGAAC
ATGGCTACAGAACATGTTAATGGAAATGGTACTGAAGAGCCCATGGATACTACTTCTGCAGTTATCCATTAGAA
AATTTTCAGACATTGCTTGATGCTGGTTTACCACAGAAAGTTGCTGAAAACTAGATGAAATTTACGTTGCAGGG
CTAGTTGCACATAGTGATTTAGATGAAAGAGCTATTGAAGCTTTAAAGAATTCAATGAAGACGGTGCATTGGCA
GTTCTTCAACAGTTTAAAGACAGTGATCTCTCATGTTTCAAGCAAAAGTGCCTTTTTATGTGGAGTCATGAAG
ACTTACAGGCAGAGAGAAAAACAAGGGACCAAAGTAGCAGATTCTAGTAAAGGACCAGATGAGGCAAAAATTAAG
GCACCTTTGGAAAGAACAGGCTACACACTTGATGTGACCACTGGACAGAGGAAGTATGGAGGACCACCTCCAGAT
TCCGTTTATTGAGTTCAGGTCAGCAGCCTTCTGTTGGCACTGAGATATTTGTGGGAAAGATCCCAAGAGATCTATTTGAG
GATGAACCTGTTCCATTATTTGAGAAAGCTGGACCTATATGGGATCTTCGTCTAATGATGGATCCACTCACTGGT
CTCAATAGAGGTTATGCGTTTGTCACTTTTTGTACAAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAAT
CATGAAATTCGTTCTGGAAACATATTGGTGTCTGCATCTCAGTTGCCAACAATAGGCTTTTTGTGGGCTCTATT
CCTAAGAGTAAACCAAGGAACAGATTCTTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACGTCATTTTA
TACCACCAACCGGATGACAAGAAAAAACAGGAGCTTTTGTCTTCTTGAATATGAAGATCACAAAACAGCTGCC
CAGGCAAGGCGTAGGTTAATGAGTGGTAAAGTCAAGGTCTGGGGGAATGTTGGAACGTTGAATGGGCTGATCCT
ATAGAAGATCCTGATCCTGAGGTTATGGCAAAGGTAAAAGTGCTGTTTGTACGCAACCTTGCCAATACTGTAACA
GAAGAGATTTTAGAAAAGGCATTTAGTCAGTTTGGGAACTGGAACGAGTGAAGAAGTTAAAAGATTATGCGTTC
ATTCATTTTGATGAGCGAGATGGTGCTGTCAAGGCTATGGAAGAAATGAATGGCAAAGACTTGAGGGGAGAAAAT
ATTGAAATGTTTTTGCCAAGCCACCAGATCAGAAAAGGAAAGAAAGAAAGCTCAGAGGCAAGCAGCAAAAAT
CAAATGTATGACGATTACTACTATTATGGTCCACCTCATATGCCCCCTCCAACAAGAGGTCGAGGGCGTGAGGT
AGAGGTGGTTATGGATATCCTCCAGATTATTATGGATATGAAGATTATTATGATTATTATGGTTATGATTACCAT
AACTATCGTGGTGGATATGAAGATCCATACTATGGTTATGAAGATTTTCAAGTTGGAGCTAGAGGAAGGGGTGGT
AGAGGAGCAAGGGGTGCTGCTCCATCCAGAGGTGCTGGGGCTGCTCCTCCCCGCGGTAGAGCCGGTTATTACAG
AGAGGAGGTCTGGATCAGCAAGAGGCGTTGAGGTGCGAGAGGAGGTGCCCAACAACAAAGAGGCCGCGGGGTA
CGTGGTGCGAGGGGTGGCCGCGGTGGAATGTAGGAGGAAAGCGCAAAGCTGATGGGTACAACCAGCCAGATTCC
AAGCGGCGCCAGACCAATAATCAGAACTGGGGCTCCCAACCCATTGCTCAGCAACCGCTCCAAGGTGGTGATCAT
TCTGGTAACTATGGTTACAAATCTGAAAACCAGGAGTTTTATCAGGATACTTTTGGGCAACAGTGGAAGTAGAAA
CAGTAGGGCCTCTGTAAAATTGGAGACTGATAGGTTGATCAGAACTCACCTAAATCTGAACGGGTGCCGCTAT
AATTTGTGACATCTGGCAAGATTTCCCTTTATGTATATATTTTAAACAATCCGCTTGACACGAACAAAGCCACAC
TTCTAACTGCTTCTGGCGAAGTATTTTATTTTAAATTTTTTCAATAAAGATATTCTTAGATACTGAAAGAAAT
AGTTAATGAGTTTGCATTTGTGCTTGAGAAAATTTGGCTCAAGTCCATTTGGCTGTAGTGTCACGATGTTTCCA
GTAGTGTTTAGATTTGGTGCTTCAAAGGTAGTTGATTAACCAAGTGTGTCTTTAATATCTTGATCAGAATA
ACTTTGTATGTTACCAACTTAAATTGCTAGAATAAGGTAAATTGATACACAAGTCTATTTTTAATTTAGAACTT
TGACCTAATTTGGGTTTTCAAACCATTTTGGCTACTTGTATTCTTTATGCTGTTGTTTATTTCAATAAAAAAT
CACACCT

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FIGURE 763

MATEHVNGNGTEEPMDTTSAVIHSENFQTL LDAGLPQKVAEKLDEIYVAGLVAHSDLDERAIEALKEFNEDGALA
VLQQFKDSDL SHVQNKSAFLCGVMKTYRQREKQGTKVADSSKGPDEAKIKALLERTGYTL DVTTGQRKYGGPPPD
SVYSGQQPSVGTEIFVGKIPRDLFEDELVPLFEKAGPIWDLRLMMDPLTGLNRGYAFVTFCTKEAAQEAVKLYNN
HEIRSGKHIGVCISVANNRLFVGSIPKSKTKEQILEEFSKVTEGLTDVILYHQPDDKKKNRSFCFLEYEDHKTA
QARRRLMSGKVKVWGNVGTVEWADPIEDPDPEVMAKVVLFRNLANTVTEEILEKAFSQFGKLERVKKLKDYAF
IHFDERDGAVKAMEEMNGKDLEGENIEIVFAKPPDQKRKERKAQRQAANKQMYDDY YYYGPPHMPPTTRGRGRGG
RGGYGYPPDY YGYEDYYDYGYDYHNYRGGYEDPY YGYEDFQVGARGRGGRGARGAAPSRGRGAAPPRGRAGYSQ
RGGPGSARGVRGARGGAQQQRGRGVARGGRGGNVGGKRKADGYNQPD SKRRQTNNQNWGSQPIAQQPLQGGDH
SGNYGYKSENQEFYQDTFGQQWK

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FIGURE 764

GAGCATGGAGGCGGGGGCGGCTGAGGCAGCTGTAGCGGCCGTGGAGGAGGTCGGCTCAGCCGGGCAGTTTGAGGA
GCTGCTGCGCCTCAAAGCCAAGTCCCTCCTTGTGGTCCATTTCTGGGCACCATGGGCTCCACAGTGTGCACAGAT
GAACGAAGTTATGGCAGAGTTAGCTAAAGAAGTCCCTCAAGTTTCATTTGTGAAGTTGGAAGCTGAAGGTGTTCC
TGAAGTATCTGAAAAATATGAAATTAGCTCTGTTCCCACTTTTCTGTTTTTCAAGAATTCTCAGAAAAATCGACCG
ATTAGATGGTGCACATGCCCCAGAGTTGACCAAAAAAGTTCAGCGACATGCATCTAGTGGCTCCTTCCTACCCAG
CGCTAATGAACATCTTAAAGAAGATCTCAACCTTCGCTTGAAGAAATTGACTCATGCTGCCCCCTGCATGCTGTT
TATGAAAGGAACTCCTCAAGAACCACGCTGTGGTTTTAGCAAGCAGATGGTGGAAATTCTTCACAAACATAATAT
TCAGTTTATGAGTTTTGATATCTTCTCAGATGAAGAGGTTTCGACAGGGACTCAAAGCCTATTCCAGTTGGCCTAC
CTATCCTCAGCTCTATGTTTCTGGAGAGCTCATAGGAGGACTTGATATAATTAAGGAGCTAGAAGCATCTGAAGA
ACTAGATAACAATTTGTCCCAAAGCTCCCAAATTAGAGGAAAGGCTCAAAGTGCTGACAAATAAAGCTTCTGTGAT
GCTCTTTATGAAAGGAAACAAACAGGAAGCAAAATGTGGATTGAGCAAAACAAATTCTGGAAATACTAAATAGTAC
TGGTGTGGAATATGAAACATTCGATATATTGGAGGATGAAGAAGTTCGGCAAGGATTAAAAGCTTACTCAAATTG
GCCAACATAACCTCAGCTGTATGTGAAAGGGGAGCTGGTGGGAGGATTGGATATTGTGAAGGAAGTGAAGAAAA
TGGTGAATTGCTGCCTATACTGAGAGGAGAAAAATTAATAAAATCTTAAACTTGGTGCCCACTATTACGGGGTCTG
GCTCTGTCAACCAGGCTGGAGTGCAGTGGCAGGATTATGGCTCATTGCAGCCTCGACTTCTCGGGGCCAAGCGAT
CCTCCTGCCTCAGCCTTCTGAGTAGCTGGGACCACAGGCGTGCACCACCATGCCCACCTAATTTTTTATTTCTTG
TAGAGATGAGGTCTCCTGCCTCAGCCTCCCAAAGTGCTGGAATTTACAGGAGTGTGGCTGTGCCCCTTGTGATG
GATGAGGAAAGGTATCCACCTTCTGAATCAGACACAAGCTGCAGTAGCTTCCTGATGCCTCATTACACAGGATG
GGTAACTTTAAAGACAAGTTTTATAACTGGCATCCCATCTGGTTTCAGAGTCTTGGGGGCTTTTTTCATACAGCT
TTGTCTGATATTTAGAGACATTCAGATTGAGAAGCCATGAGTTAGTTAGCTCATGGGCCGGGCACGTGCACTGA
CTCACTGGCTGCAGCAGAACACATTGAGGGAGTCTTGGTGCACCTAGGTCACTGTAAGGTTCTAGGGCTGGGAGC
TGGGATTTGAACCAGGATCTGTGAGCGCAGCCCCAGTGCTGTGCTTGAAGCCTCGTGCCCACTGGCTTTGAGGT
AGCACGCTGCAAGTTAGTGAGTGGAGTTGCCCAAGTCTGGGGCTTCTGAAATGACCTGGTATTTTTATGTTCTG
TTAGAAATGGTGTGGCTTTCACAAATTAAGTGCCAGGCTGGGCACAATGGCTCGTGCTTGAATCCCAGCACTTT
GGGAGGCGGAGGCAGGCGGGTTGCTTGAGCTCCGAGCTTGAGACCAGCCTGAGCAACATGGCGAAACCTCATAT
CTACAAAAAATAAAAAATTAAGTGGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 765

MEAGAAEA AVAAVEEVGSAGQFEELLRLKAKSLLVVHFWAPWAPQCAQMNEVMAELAKELPQVSFVKLEAGVPE
VSEKYEISSVPTFLFFKNSQKIDRLDGAHAPELTKKVQRHASSGSFLPSANEHLKEDLNLRLKKLTHAAPCMLFM
KGTPQEPRCGFSKQMVEILHKHNIQFSSFDIFSDEEVRQGLKAYSSWPTYPQLYVSGELIGGLDIKELEASEEL
DTICPKAPKLEERLKVLTNKASVMLFMKGNKQEAACGFSKQILEILNSTGVEYETFDILEDEEVRQGLKAYSNWP
TYPQLYVKGELVGGLDIVKELKENGELLPILRGEN

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FIGURE 766

GCTAACCTAGTGCCTATAGCTAAGGCAGGTACCTGCATCCTTGTTTTTGTTTAGTGGATCCTCTATCCTTCAGAG
ACTCTGGAACCCCTGTGGTCTTCTCTTTCATCTAATGACCCTGAGGGGATCGAGTTTTCAAGTCCTTCCAGAGAGG
AATGTCCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGCAGCCTCACAGGTTTGCTTCTACTTCAGGCAGTGT
CGTGGGCATCAGGTGCCCGCCCTGCATCCCTAAAAGCTTCGGCTACAGCTCGGTGGTGTGTGTCTGCAATGCCA
CATACTGTGACTCCTTTGACCCCCCGACCTTTCCTGCCCTTGGTACCTTCAGCCGCTATGAGAGTACACGCAGTG
GGCGACGGATGGAGCTGAGTATGGGGCCCATCCAGGCTAATCACACGGGCACAGGCCTGCTACTGACCCTGCAGC
CAGAACAGAAGTTCAGAAAGTGAAGGGATTTGGAGGGGCCATGACAGATGCTGCTGCTCTCAACATCCTTGCCC
TGTCACCCCTGCCCAAATTTGCTACTTAAATCGTACTTCTCTGAAGAAGGAATCGGATATAACATCATCCGGG
TACCCATGGCCAGCTGTGACTTCTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACA
ACTTCAGCCTCCCAGAGGAAGATACCAAGCTCAAGATACCCCTGATTACCGAGCCCTGCAGTTGGCCCAGCGTC
CCGTTTCACTCCTTGCCAGCCCTGGACATCACCCACTTGGCTCAAGACCAATGGAGCGGTGAATGGGAAGGGGT
CACTCAAGGGACAGCCCGGAGACATCTACCACAGACCTGGGCCAGATACTTTGTGAAGTTCCTGGATGCCTATG
CTGAGCACAAGTTACAGTTCTGGGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTGAGTGGATACCCCT
TCCAGTGCCTGGGCTTACCCCTGAACATCAGCGAGACTTCATTGCCCGTGACCTAGGTCTTACCCTCGCCAACA
GTACTCACCACAATGTCCGCCTACTCATGCTGGATGACCAACGCTTGCTGCTGCCCCACTGGGCAAAGGTGGTAC
TGACAGACCCAGAAGCAGCTAAATATGTTTCATGGCATTGCTGTACATTGGTACCTGGACTTTCTGGCTCCAGCCA
AAGCCACCCTAGGGGAGACACACCGCCTGTTCCCCAACACCATGCTCTTTGCCTCAGAGGCCTGTGTGGGCTCCA
AGTTCTGGGAGCAGAGTGTGCGGCTAGGCTCCTGGGATCGAGGGATGCAGTACAGCCACAGCATCATCACGAACC
TCCTGTACCATGTGGTCTGGCTGGACCGACTGGAACCTTGCCCTGAACCCCGAAGGAGGACCCAATTGGGTGCGTA
ACTTTGTGACAGTCCCATCATTGTAGACATCACCAAGGACACGTTTTACAAACAGCCCATGTTCTACCACCTTG
GCCACTTCAGCAAGTTTATTCTGAGGGCTCCCAGAGAGTGGGGCTGGTTGCCAGTCAGAAGAACGACCTGGACG
CAGTGGCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTCTGTGCTAAACCGCTCCTCTAAGGATGTGCCTCTTA
CCATCAAGGATCCTGCTGTGGGCTTCTGAGAGACAATCTCACCTGGCTACTCCATTTCACACCTACCTGTGGCATC
GCCAGTGAATGGAGCAGATACTCAAGGAGGCACTGGGCTCAGCCTGGGCATTAAAGGGACAGAGTCAGCTCACACG
CTGTCTGTGACTAAAGAGGGGCACAGCAGGGCCAGTGTGAGCTTACAGCGACGTAAGCCCAGGGGCAATGGTTTGG
GTGACTCACTTTCCCCTCTAGGTGGTGCCAGGGCTGGAGGCCCTAGAAAAAGATCAGTAAGCCCCAGTGTCCC
CCCAGCCCCCATGCTTATGTGAACATGCGCTGTGTGCTGCTTGTGTTGGAACTXGCCTGGGTCCAGGCCTAGGG
TGAGCTCACTGTCCGTACAAACACAAGATCAGGGCTGAGGGTAAGGAAAAGAAGAGACTAGGAAAAGCTGGGCCCCA
AACTGGAGACTGTTTGTCTTTCCTAGAGATGCAGAACTGGGCCCGTGGAGCAGCAGTGTTCAGCATCAGGGCCGA
AGCCTTAAAGCAGCAGCGGGTGTGCCAGGCACCCAGATGATTCTATGGCACCAGCCAGGAAAAATGGCAGCTC
TTAAAGGAGAAAATGTTTGAGCCCA

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FIGURE 767

MEFSSPSREECPKPLSRVSI MAGSLTG LLLLQAVSWASGAREPCIPKSFGYSSVVCVCNATYCD SFD PPTFPALGT
FSRYESTRSGRRMELSMGPIQANHTGTG LLLTLQPEQKFQKVKGFGGAMTDAAALNILALSPPAQNLLKSYFSE
EGIGYNIIRVPMASCD FSIRTYTYADTPDDFQLHNFSLPEEDTKLKIPLIHRALQLAQRPVSL LASPWTSP TWLK
TNGAVNGKGS LKGQPGDIYHQTWARYFVKFLDAYAEHKLQFWAVTAENEP SAGLLSGYPFQCLGFTPEHQ RDFIA
RDLGPTLANSTHHNVRLMLDDQRL LLPHWAKVVLTDPEAAKYVHGI AVHWYLD FLAPAKATLGETHRLFPNTML
FASEACVGSKFWEQSVRLGSWDRGMQYSHSIITNLLYHVVGWTDWNLALNPEG GPNWVRNFVDSP IIVDITKDTF
YKQPMFYHLGHFSKFIPEG SQRVGLVASQKNDLDAVALMHPDGS AVVVVLNRSSKDVPLTIKDPAVG FLETISPG
YSIHTYLWHRQ

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FIGURE 768

TTTTTTTTTTTTTTTTTTTTTTTTTTTTCACAGTACAACCTCAACACTTTATTCCATTGTGATTGGTATACATGTAAGA
TTGAGACATCAAGAGACTAAAAATCAGTGCAGAACTTCTCTGAACTAAAGGGCCGTGAAAGGCATGATTGGTTTT
GGCACACAGAGTGGATAACCATACATTGGCTGGAATGAGGTGGTCAGGAAAATAAAATGCACAAATCTAACACCA
TGTTGAAATCATGTCTGAGTTCTGGAGAAAGTTAAAGTGTAATAATTACAAAGACTGACATGCAACTCTTTACC
TTACATTATTCATCTACAGACTATTTTTCTCCCTTAGAGATGAGGAGATGGCCTTAGTAATCTGTTTCAGAGTAGC
TGAAAAGACCAATCAATACACATTAGAAAGATCTGCCTGATTTCTATAGCAATTCATTATAGCTGAAGAAATAAT
GCTAAATAATGTATTTTCTCTATATCATCCTTTAACTAAATTGAATCACATCACCCAAGTAATTCTGACTTAACT
TTTACTTAGTTAAATATAATTTCTCCTGTCTTTTAAATGTCAAAAAGCAGTTTCCGTTAGTTTATCCATTGGTGTA
TATCACAACAGATGAGGAAAACCTTATGTGATAGTATCTTTCTTTTCAAAAATAACATTATGCTAATGAGAACAT
CAAAGAAGTAATACTATGCTGCAAGTAATTTAGGTTTTTACATCATCAATCATATAGGGAGTCCAAAGAAGCCAG
CCTAGCAGGTAACATAGCAGAGCAGAATGCAATGTAGAAGAGGCACACAGAGTCTAAGTGATTTCTCCAGACAAA
AGAGAAGGAAAGACAGAAAAGAAGCAAAAGAAAGGAAAAGTGAAAAACAGCCTTCTGCAGAACAAATTGTTACAAA
GAAAAATCTATTTGCTTGCAATTGATTAAACATAATAGAGAAGAGTTCTTTGATTTGGGATGATAGAAGTAAAGA
TATTAAAAATTATATGCTGGTAAGCCTAAACTGGCAGATTGGGCCATTTTTCTGTGGTTGTATTTGAGATGTTG
AGCTCTCACAGGGAGAATTTTTGCTTTTGCCAAGGAAGGGCCAGATTTAACCCAAAAGGACAACTTGAGAACAT
TTTTCTTTGTTAACTTGCGCATGTGGCTAACATTGCTTCTCTCTGGTAAAAAGATATTATTTCATCTCTGATG
AGATGGTTCAAAATATGACAGTGACCAAGACGTGGTTTATTACAGGATGCACATAATTGGATATCTGCATATGG
CATGAATTAAGGAAAGTTAAGCAACAAGGAAGAGAAGGAGGAGAAAAAACTTTTGCAAATTTCTGACATAAA
ATAATCAAAATAAAAGGGAAAGATAGTGGTTAAGGATGTTTTTCAATTTCTCAGAGGTTTCTCCTTCCATCTGCTAC
GGGGGAAATGAAATGAATGAAAGTAATTTCTTTTAGGTACCAACATAAGGAATAATTTGACTGCAAACATAGAA
GTGAGCAGAGCAAGATTTGAAGTGATACTTCTTAATCTCTTTGATTCTTAATCTTAAACAACAAGCCACAGGCAA
TACAGGAAAGGTGGAGATGACTAGGAAGTGTGATAATGTGCCTGGATCAGTTACCATTTCATTGGAAAGTACCGTT
TCCCTGCTGTGTTAATAGGCTGATTCCCTGCAGGTTTGAGTAAAGGAATCATCTCTTCTTCCCTCAGTGCCGCATTGTT
CTTTGTAAGAGATCCGTGTCAGTTCAAAGTTGTGTAATTTAAAGGCTAGAGAAGAAAGAAGTTTAAATTGGATCC
CACAGTAAATATTCACGGATATTTCAAAGTAGAATTGTCCACTGTCTGGGGTTGGGTTCAAGCATCAAGGTGATC
GCTTCTGAACATGTTTCATTGACCATGAGGAGCTGTTTACTCTGGCTCATATTAGACTACCAGTAATTATTTTCA
GACATGATGTCTCTTTTGAAAGAAATGACTTTGCTGGACTAGGATAACTGCAGGGGTAGAAGACTGGAAATACGG
TGAGTCAGGGTAGGTGGAAACAGAAATGAGTAGAAGGAAAAAAGAGTTCTCCAAGGTCATATATGG
TCAGTAATGAAGCAAAAATTCATGGTATGTGACTTAAAGACTTTCTAAGACATTGTACCCATGGGATGTTTCCAA
GCTTCTTGATCTTTAATCTTTTAGCAACCTTCTGATACTGGATTTACCTTCTAGGTGTGGTGCCCTCCTTCTGG
AATTTAGATCTCTGGGGCAAACCCTGTGAGGATGTGCCTCTGTGTAGTTAAACTGCCCCAGACAGCAGCTCTGA
TTTCAGTCACAGTTCTGCTGAGAAGCCTGTCTGCCCTGGCAGGGGTGAGGGGAGGGTTGTTGGTGGCAGATGTA
GTCAGAGGCAGAGGAGACCAATGGCAGACAGGGTGGACCTGCAGGAAGGTAGCCAGAAGGAAAGACCTTGGGTTT
TACCCAAGGTCAAGGTGGCTGTGATAGAAGAGCGAAAGGCAAAAGTAATACTGAATTTCAGAATTCAGAAGTA
AAAGAGAAAGGAGGAGGATCCCTGGACCAGGGACTTTCACAGGAACCAACATGATTTCATGAAAAAAAAAAAAA
AAAAAA

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FIGURE 769

TCCAGTGACGGAGCCGCCCCGGCCGACAGCCCCGAGACGACAGCCCGGCGCGTCCCGGTCCCCACCTCCGACCACC
GCCAGCGCTCCAGGCCCCGCGCTCCCCGCTCGCCGCCACCGCGCCCTCCGCTCCGCCCCGAGTGCCAAACCATGAC
CGCCGCCAGTATGGGCCCCGTCCGCGTCGCCTTCGTGGTCCTCCTCGCCCTCTGCAGCCGGCCGGCCGTCGGCCA
GAACTGCAGCGGGCCGTGCCGGTGCCCGGACGAGCCGGCGCCGCGCTGCCCGGCGGGCGTGAGCCTCGTGCTGGA
CGGCTGCGGCTGCTGCCGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCCTGCGACCCGCA
CAAGGGCCTCTTCTGTGACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCCAAAGATGGTGCTCC
CTGCATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCCTTCCAGAGCAGCTGCAAGTACCAGTGCAGTGCCT
GGACGGGGCGGTGGGCTGCATGCCCTGTGCAGCATGGACGTTTCGTCTGCCAGCCCTGACTGCCCCCTTCCCGAG
GAGGGTCAAGCTGCCCCGGGAAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAACCGTGGTTGGGCC
TGCCCTCGCGGCTTACCGACTGGAAGACACGTTTTGGCCAGACCCAACCTATGATTAGAGCCAACCTGCCTGGTCCA
GACCACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATCTCCACCCGGGTTACCAATGACAACGCCTC
CTGCAGGCTAGAGAAGCAGAGCCGCTGTGCATGGTCAGGCCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAA
GGGCAAAAAGTGATCCGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAA
GACATACCGAGCTAAATTCTGTGGAGTATGTACCGACGGCCGATGCTGCACCCCCACAGAACCACCACCCTGCC
GGTGGAGTTCAAGTGCCCTGACGGCGAGGTGATGAAGAAGAACATGATGTTTCATCAAGACCTGTGCCTGCCATTA
CAACTGTCCCGGAGACAATGACATCTTTGAATCGTGTACTACAGGAAGATGTACGGAGACATGGCATGGAAGCCA
GAGAGTGAGAGACATTAACCTCATTAGACTGGAACCTGAACTGATTACATCTCATTTCCTCGTAAAAATGATTTT
AGTAGCACAAGTTATTTAAATCTGTTTTCTAACTGGGGGAAAAGATTCCACCCAATTCAAACATTGTGCCAT
GTCAAACAAATAGTCTATCTTCCCCAGACACTGGTTTGAAGAATGTTAAGACTTGACAGTGGAACTACATTAGTA
CACAGCACCAGAATGTATATTAAGGTGTGGCTTTAGGAGCAGTGGGAGGGTACCAGCAGAAAGGTTAGTATCATC
AGATAGCTCTTATACGAGTAATATGCCTGCTATTTGAAGTGTAATTGAGAAGGAAAATTTAGCGTGCTCACTGA
CCTGCCTGTAGCCCCAGTGACAGCTAGGATGTGCATTCTCCAGCCATCAAGAGACTGAGTCAAGTTGTTTCCTTAA
GTCAGAACAGCAGACTCAGCTCTGACATTCTGATTGGAATGACACTGTTTCAGGAATCGGAATCCTGTGATTAGA
CTGGACAGCTTGTGGCAAGTGAATTTCTGTAAACAAGCCAGATTTTTTAAATTTATATTGTAAATATTGTGTGT
GTGTGTGTGTGTATATATATATATATATGTACAGTTATCTAAGTTAATTTAAAGTTGTTTGTGCCTTTTTTATT
TTTGTTTTTAATGCTTTGATATTTCAATGTTAGCCTCAATTTCTGAACACCATAGGTAGAATGTAAAGCTTGTCT
GATCGTTCAAAGCATGAAATGGATACTTATATGGAAATCTCTCAGATAGAATGACAGTCCGTCAAACAGATTG
TTTGCAAAGGGGAGGCATCAGTGTCTTGGCAGGCTGATTTCTAGGTAGGAAAATGTGGTAGCTCACGCTCACTTT
TAATGAACAAATGGCCTTTATTA AAAA CTGAGTGACTCTATATAGCTGATCAGTTTTTTCACCTGGAAGCATTTG
TTTCTACTTTGATATGACTGTTTTTCGGACAGTTTATTTGTTGAGAGTGTGACCAAAGTTACATGTTTGCACCT
TTCTAGTTGAAAATAAAGTATATTTTTTCTAAAAA AAAAAA ACGACAGCAACGGAATTC

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FIGURE 770

MTAASMGPVRVAFVVLLALCSRPAVGQNCSGPCRCPDEPAPRCPAGVSLVLDGCGCCRVCAKQLGELCTERDPCD
PHKGLFCDFGSPANRKIGVCTAKDGAPCIFGGTVYRSGESFQSSCKYQCTCLDGAVGCMPLCSMDVRLPSPDCPF
PRRVKLPGKCCEEWVCDEPKDQTVVGPALAAAYRLEDTFGPDPTMIRANCLVQTTEWSACSKTCGMGISTRVTNDN
ASCRLEKQSRLCMVRPCEADLEENIKKGKKCIRTPKISKPIKFELSGCTSMKTYRAKFCGVCTDGRCCTPHRTT
LPVEFKCPDGEVMKKNNMMFIKTCACHYNCPGDNDIFESLYYRKMYGDMA

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FIGURE 771

ACATTTGCTTCTGACACAACCTGTGTTCACTAGCAACCTCAAACAGACACCATGGTGCACCTGACTCCTGAGGAGA
AGTCTGCCGTTACTGCCCTGTGGGGCAAGGTGAACGTGGATGAAGTTGGTGGTGAGGCCCTGGGCAGGCTGCTGG
TGGTCTACCCTTGGACCCAGAGGTTCTTTGAGTCCTTTGGGGATCTGTCCACTCCTGATGCTGTTATGGGCAACC
CTAAGGTGAAGGCTCATGGCAAGAAAGTGCTCGGTGCCTTTAGTGATGGCCTGGCTCACCTGGACAACCTCAAGG
GCACCTTTGCCACACTGAGTGAGCTGCACTGTGACAAGCTGCACGTGGATCCTGAGAACTTCAGGCTCCTGGGCA
ACGTGCTGGTCTGTGTGCTGGCCCATCACTTTGGCAAAGAATTCACCCACCAGTGCAGGCTGCCTATCAGAAAG
TGGTGGCTGGTGTGGCTAATGCCCTGGCCACAAGTATCACTTAAGCTCGCTTTCTTGCTGTCCAATTTCTATTAA
AGGTTCTTTGTTCCCTAAGTCCAACCTACTAAACTGGGGGATATTATGAAGGGCCTTGAGCATCTGGATTCTGCC
TAATAAAAAACATTTATTTTCATTGC

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FIGURE 772

MVHLTPEEKSAVTALWGKVNVDDEVGGEALGRLLVVYPWTQRFFESFGDLSTPDVAMGNPKVKAHGKKVLGAFSDG
LAHLDNLKGTFFATLSELHCDKLHVDPENFRLLGNVLCVLAHHFGKEFTPPVQAAYQKVVAGVANALAHKYH

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FIGURE 773

ATGGCATCCGTTGCAGTTGATCCACAACCGAGTGTGGTGACTCGGGTGGTCAACCTGCCCTTGGTGAGCTCCACG
TATGACCTCATGTCCTCAGCCTATCTCAGTACAAAGGACCAGTATCCCTACCTGAAGTCTGTGTGTGAGATGGCA
GAGAACGGTGTGAAGACCATCACCTCCGTGGCCATGACCAGTGCTCTGCCCATCATCCAGAAGCTAGAGCCGCAA
ATTGCAGTTGCCAATACCTATGCCTGTAAGGGGCTAGACAAGGATTGAGGAGAGACTGCCTATTCTGAATCAGCCA
TCAACTCAGATTGTTGCCAATGCCAAAGGCGCTGTGACTGGGGCAAAAGATGCTGTGACGACTACTGTGACTGGG
GCCAAGGATTCTGTGGCCAGCACGATCACAGGGGTGATGGACAAGACCAAAGGGGCAGTGACTGGCAGTGTGGAG
AAGACCAAGTCTGTGGTCAGTGGCAGCATTAAACACAGTCTTGGGGAGTCGGATGATGCAGCTCGTGAGCAGTGGC
GTAGAAAATGCACTCACCAAATCAGAGCTGTTGGTAGAACAGTACCTCCCTCTCACTGAGGAAGAAGTCTAGAAAA
GAAGCAAAAAAAGTTGAAGGATTTGATCTGGTTCAGAAGCCAAGTTATTATGTTAGACTGGGATCCCTGTCTACC
AAGCTTCACTCCCGTGCCTACCAGCAGGCTCTCAGCAGGGTTAAAGAAGCTAAGCAAAAAAGCCAACAGACCATT
TCTCAGCTCCATTCTACTGTTACCTGATTGAATTTGCCAGGAAGAAATGTGTATAGTGCCAATCAGAAAATTCAG
GATGCTCAGGATAAGCTCTACCTCTCATGGGTAGAGTGGAAAAGGAGCATTGGATATGATGATACTGATGAGTCC
CACTGTGCTGAGCAATTTGAGTCACGTACTCTTGCAATTGCCCCGAACCTGACTCAGCAGCTCCAGACCACGTGC
CACACCTCCCTGTCCAACATCCAAGGTGTACCACAGAACATCCAAGATCAAGCCAAGCACATGGGGGTGATGGCA
GGCGACATCTACTCAGTGTTCGCAATGCTGCCTCCTTTAAAGAAGTGTCTGACAGCCTCCTCACTTCTAGCAAG
GGGCAGCTGCAGAAAATGAAGGAATCTTTAGATGACGTGATGGATTATCTTGTTAACAACACGCCCTCAACTGG
CTGGTAGGTCCCTTTTATCCTCAGCTGACTGAGTCTCAGAATGCTCAGGACCAAGGTGCAGAGATGGACAAGAGC
AGCCAGGAGACCCAGCGATCTGAGCATAAAACTCATTAA

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FIGURE 774

MASVAVDPQPSVVTRVVNLPLVSSSTYDLMSAYLSTKDQYPYLKSVCEMAENGVKTTITSVAMTSALPIIQKLEPQ
IAVANTYACKGLDRIEERLPILNQ PSTQIVANAKGAVTGAKDAVTTTGTGAKDSVASTITGVMDKTKGAVTGSVE
KTKSVVSGSINTVLGSRMMQLVSSGVENALTKSELLVEQYLPLTEEELEKEAKKVEGFDLVQKPSYYVRLGSLST
KLHGRAYQQALSRVKEAKQKSQQTISQLHSTVHLIEFARKNVYSANQKIQDAQDKLYLSWVEWKRSIGYDDTDES
HCAEQFESRTLAIARNLTQQLQTTCHTLLSNIQGV PQNIQDQAKHMGVMAGDIYSVFRNAASFKEVSDSLLTSSK
GQLQMKESLDDVMDYLVNNTPLNWLVGPFYPQLTESQNAQDQGAEMDKSSQETQRSEHKTH

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FIGURE 775

CATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCT
CCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTGC
ATGTGGAGGAGCTGGCTTTGGCAGCCGCAGCTTATATGGCCTGGGGGGATCCAAGAGGATCTCCATTGGAGGGGG
CAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCAGAGCGAGCTATGGCTTTGGTGGCGCCGGGAGTGGATT
TGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGATCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCC
TGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTCACTGTCAACCAGAGTCTCCTGACTCCCCTCAACCT
GCAAATTGACCCCGCCATCCAGCGGGTGCGGGCCGAGGAGCGTGAGCAGATCAAGACCCTCAACAACAAGTTTGC
CTCCTTCATCGACAAGGTGCGGTTCTGGAGCAGCAGAACAAGGTTCTGGAACAAAGTGGACCCTGCTGCAGGA
GCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCAGCAGTACATCAACAACCTCAGGAGGCAGCT
GGACAGCATTGTGCGGGAACGGGGCCGCTGGACTCAGAGCTCAGAGGCATGCAGGACCTGGTGGAGGACTTCAA
GAACAAATATGAGGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGA
TGCTGCCTACATGAACAAGGTTGAACTGCAAGCCAAGGCAGACACTCTCACAGACGAGATCAACTTCCTGAGAGC
CTTGTATGATGCAGAGCTGTCCAGATGCAGACCCACATCTCAGACACATCTGTGGTGTCTGCCATGGACAACAA
CCGCAACCTGGACCTGGACAGCATCATCGCTGAGGTCAAGGCCAATATGAGGAGATTGCTCAGAGAAGCCGGGC
TGAGGCTGAGTCTTGGTACCAGACCAAGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCG
CAACACCAAGCAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAA
GCAGTGCGCCAACCTGCAGGCCGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCCAAGAA
CAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGA
GCTGATGAATGTCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGTGAAGGAGTGCAG
GCTGAATGGCGAAGGCGTTGGACAAGTCAACATCTCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGC
CAGTGGTGTTCGGCAGTGGCTTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTGGAGG
TGGCTTCAGTTCCAGCAGTGGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAA
GTACACCACCACCTCCTCCTCCAGCAGGAAGAGCTATAAGCACTAAGTGCCTCTGCTAGCTCTCGGTCCCACAGT
CCTCAGGCCCCCTCTCTGGCTGCAGAGCCCTCTCCTCAGGTTGCCTGTCTCTCTCTCTCTATACCATCTGAGCACCCA
TTGCTCACCATCAGATCAACCTCTGATTTTACATCATGATGTAATCACCAGTGGAGCTTCACTGTTACTAAATTA
TTAATTTCTTGGCTCCAGTGTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCTCCTTTTTCATTGC
AGAAAATTGCCAGGGGCTTATTTTCAACAACCTTCACTTACTTTTCCACTGGCTCTCAAACTCTCTAACTTATAA
GTGTTGTGAACCCCCACCCAGGCAGTATCCATGAAAGCACAAAGTGAAGTACTAGTCTATGATGTACAAAGCCTGTATC
TCTGTGATGATTTCTGTGCTCTTCACTCTTTGCAATTGCTAAATAAA

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FIGURE 776

MASTSTTIRSHSSRRGFSANSARLPGVSRSGFSSISVSRSRGSGGLGGACGGAGFGSRSLYGLGGSKRISIGGG
SCAISGGYGSRARASYGFGGAGSGFGFGGGAGIGFDLGGGAGLAGGFGGPGFPVCPGGIQEVTVNQSLLTPLNL
QIDPAIQRVRAEEREQIKTLNNKFASFIDKVRFLQQNKVLETKWILLQEQGKTQVRQNLPLFEQYINNLRRL
DSIVGERGRLDSELRGMQDLVEDFKNKYEDEINKRTAAENEFVTLKKDVDAAYMNKVELQAKADTLTDEINFLRA
LYDAELSQMQTHISDTSVVLSDNNRNLDLDSIIAEVKAQYEEIAQRSRAEAEESWYQTKYEELQVTAGRHGDDL
NTKQEI AEINRMIQRLRSEIDHVKKQCANLQAAIADAEQRGEMALKDAKNKLEGLEDALQAKQDLARLLKEYQE
LMNVKLALDVEIATYRKLEGEECRLNGEGVGQVNISVVQSTVSSGYGGASGVGSGGLGLGGSSSYSGSLGVGG
GFSSSSGRAIGGGLSSVGGGSSTIKYTTTSSSSRKSYKH

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FIGURE 777

CATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAGCTCAGCCAGGCT
CCCTGGGGTTCAGCCGCTCTGGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGCGC
ATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGG
CAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATT
TGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCC
TGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTCACTGTCAACCAGAGTCTCCTGACTCCCCTCAACCT
GCAAATTGACCCCGCCATCCAGCGGGTGCGGGCCGAGGAGCGTGAGCAGATCAAGACCCTCAACAACAAGTTTGC
CTCCTTCATCGACAAGGTGCGGTTCCCTAGAGCAGCAGAACAAGGTTCTGGACACCAAGTGGACCCTGCTGCAGGA
GCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCAGCAGTACATCAACAACCTCAGGAGGCAGCT
GGACAGCATCGTGGGGGAACGGGGTCTGCTGGACTCGGAGCTGAGAAACATGCAGGACCTGGTGGAGGACCTCAA
GAACAAATATGAGGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGA
TGCTGCCTACATGAACAAGGTTGAACTGCAAGCCAAGGCAGACACTCTTACAGATGAGATCAACTTCTGAGAGC
CTTGATGATGCAGAGCTGTCCCAGATGCAGACCCACATCTCAGACACATCCGTGGTGTATCCATGGACAACAA
CCGCAACCTGGACCTGGACAGCATCATCGCTGAGGTCAAGGCCAATATGAGGAGATTGCTCAGAGGAGCAGGGC
TGAGGCTGAGTCTGGTACCAGACAAAGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCG
CAACACCAAGCAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAA
GCAGTGTGCCAACCTACAGGCTGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCTAAGAA
CAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGA
GCTGATGAACGTCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGTGCAG
GCTGAATGGCGAAGGCGTTGGACAAGTCAACATCTCTGTAGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGC
CAGCGGTGTCGGCAGTGGCTTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTGGAGG
CGGCTTTAGTTCCAGCAGCGGCAGAGCCACTGGGGGTGGCCTCAGCTCTGTTGGAGGGCGGAGTTCCACCATCAA
GTACACCACCACCTCCTCCTCCAGCAGGAAGAGCTACAAGCAGTGAAGTCGTGCCGCCAGCTCTCAGTCCCACAG
CTCTCAGGCCCTCTCTGGCAGCAGAGCCCTCTCCTCAGGTTGCTTGTCTCCCTGGCCCTCCAGTCTCCCCTGC
CCTCCCGGGTAGAGCTGGGATGCCCTCACTTTTCTCTCATCAATACCTGTTCCACTGAGCTCCTGTTGCTTACC
ATCAAGTCAACAGTTATCAGCACTCAGACATGCGAATGTCTTTTGTAGTTCCCGTATTATTACAGGTATCTGAGT
CTGCCATAATTCTGAGAAGAAAAATGACCTATATCCCCATAAGAAGTGAAGTCAAGTCTAGGTCCAGCTGCAGAT
GAGGAGTCCTCTCTTTAATTGCTAACCATCCTGCCATTATAGCTACACTCAGGAGTTCTCATCTGACAAGTCAG
TTGTCTGATCTTCTTTCAGTGTCCCTGAATGGCAAGTGATGTACCTTCTGATGCAGTCTGCATTCTGCACT
GCTTCTCTGCTCTCTTTGCCTTCTTTGTTCTGTTGAATAAA

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FIGURE 778

MASTSTTIRSHSSSRGFSASSARLPGVSRSGFSSISVSRSGSGGLGGACGGAGFGSRSLYGLGGSKRISIGGG
SCAISGGYGSRAAGGSYGFGGAGSGFGFGGGAGIGFGLGGAGLAGGFGGPGFPVCPGGIQEVTVNQSLLTPLNL
QIDPAIQRVRAEEREQIKTLNNKFASFIDKVRFLQQQNKVLDTKWTLLQEQGKTQVRQNLPLFEQYINNLRRL
DSIVGERGRLDSELNMQDLVEDLKNKYEDEINKRTAAENEFVTLKKDVDAAYMNKVELQAKADTLTDEINFLRA
LYDAELSQMQTHISDTSVVLSDNNRNLDLDSIIAEVKAQYEEIAQRSRAEAESWYQTKYEELQVTAGRHGDDL
NTKQEI AEINRMIQRLRSEIDHVKKQCANLQAAIADAEQRGEMALKDAKNKLEGLEDALQKAKQDLARLLKEYQE
LMNVKLALDVEIATYRKLLGEECRLNGEGVGQVNISVVQSTVSSGYGGASGVGSGLGLGGGSSYSYGSGLGVGG
GFSSSSGRATGGGLSSVGGGSSTIKYTTTSSSSSRKSYKH

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FIGURE 779

GGCACGAGGAGCGAAGTCCCAGTGC GCGCCGCGGCAGCCCCGGGCACCCCTCCCCTTCCGGGCGTGAGTCGCTGTGA
AAAGAGCTGAAGCGAGCGGACTCGCACCGGCAGCGAGGCGCCGCTCCCGCCGCCTCAGCCCGGCCTTCCTCGGCT
CCGGCGCTCCGGTCGCGGGGCCCCGGGTTCCCTCGGCACACCCCGCTCCAGCCGCCCCCAGAGCCTGTCCCCAGCCC
TTCGGAAGCCCCGCGGCCAGCCCCGGGCCCTCGGCAGGGAGGATGACGGAGCTGCAGTCGGCACTGCTACTGCGAA
GACAGCTGGCAGAACTCAACAAAAATCCAGTGGAAGGCTTTTCTGCAGGTTTAAATAGATGACAATGATCTCTACC
GATGGGAAGTCCTTATTATTGGCCCTCCAGATACACTTTATGAAGGTGGTGTTTTTAAGGCTCATCTTACTTTCC
CAAAAGATTATCCCCTCCGACCTCCTAAAATGAAATTCATTACAGAAATCTGGCACCCAAATGTTGATAAAAATG
GTGATGTGTGCATTTCTATTCTTCATGAGCCTGGGGAAGATAAGTATGGTTATGAAAAGCCAGAGGAACGCTGGC
TCCCTATCCACACTGTGGAACCATCATGATTAGTGTCAATTTCTATGCTGGCAGACCCTAATGGAGACTCACCTG
CTAATGTTGATGCTGCGAAAGAAATGGAGGGAAGATAGAAATGGAGAATTTAAAAGAAAAGTTGCCCCGCTGTGTAA
GAAAAGCCAAGAGACTGCTTTTGAGTGA CATTATTTAGCAGCTAGTAACCTTCACTTATTTAGGGTCTCCAAT
TGAGAAACATGGCACTGTTTTTCCTGCACTCTACCCACCTATTGCTGGACTTCTGTTGTACAAGTTGGCAAACAC
TGGCTGGAAC TGGGCTGCAATAAAACATGCCAGTTATCAATGCTGACAAGAGCCTAACAAGTGCCAACTTACAGA
TGATTACGCATTTTGAATTCTAATGAACTGTTTTAACCTTCAGGAAGAATTGTAAAGACCTGTACATAGCACAAAC
ATGATCCGGATAATATATATACTGTTTCATGTACATCCACAAATACACCTTGTACCAAATAATGCTTTCTTGTAGT
AGAATAAGAATCGTGTAATTCTAAGAGATTTTAGCAGGTTTTCTTTCCTATTTCATTGTTTCTTATCAGTTTAAA
AGGATTCCTTTAAGCATGTCAGATGAAAAGCAATTAGGATTAAAAGTTTCCATTTAATTTCCCTTAAACCCTTGA
GGCTTCATTAAACTCTTTTCACTTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 780

MTELQSALLRRQLAELNKNPVEGFSAGLIDDNDLYRWEVLIIGPPDTLYEGGVFKAHLTFPKDYPLRPPKMKFI
TEIWHPNVDKNGDVCISILHEPGEDKYGYEKPEERWLPIHTVETIMISVISMLADPNGDSPANVDAAKEWREDRN
GEFKRKVARCVRKSQETAFE

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FIGURE 781

AGGCTGTCTGCAGAGATTTGAAAAATGGCAACAAATGAAAGTGTGAGCATCTTTAGTTCAGCATCCTTGGCTGTG
GAATATGTAGATTCACTTTTACCTGAGAATCCTCTGCAAGAACCATTATAAAATGCTTGGAACATATATGTTGAAT
AATTATACAAAGTTCCAGATTGCAACATGGGGATCCCTTATAGTTCATGAAGCCCTTTATTTCTTATTCTGTTTA
CCTGGATTTTTTATTTCAATTTATACCTTATATGAAAAAATACAAAATTCAAAAGGATAAGCCAGAGACATGGGAA
AACCAATGGAAGTGTTCAAAGTTCTTCTCTTTAATCACTTCTGTATCCAGCTGCCTTTGATTTGTGGAACCTAT
TATTTTACAGAGTATTTCAATATTCCTTATGATTGGGAAAGAATGCCAAGATGGTATTTTCTTTTGGCAAGATGC
TTTGGTTGTGCAGTCATTGAAGATACTTGGCACTATTTTCTGCATAGACTCTTACACCACAAAAGAATATACAAG
TATATTCATAAAGTTCATCATGAGTTTCAGGCTCCATTTGGAATGGAAGCTGAATATGCACATCCTTTGGAGACT
CTAATTCCTGGAACCTGGATTTTTTCATTGGAATCGTGCTTTTGTGTGATCATGTAATTCCTTTTGGGCATGGGTG
ACCATTTCGTTTATTAGAAACTATTGATGTCCATAGTGGTTATGATATTCCTCTCAACCCTTTAAATCTGATCCCT
TTCTATGCTGGTTCTCGGCATCATGATTTCCACCACATGAACCTTCATTGGAAGCTATGCTTCAACATTTACATGG
TGGGATCGAATTTTTTGGAAACAGACTCTCAGTATAATGCCTATAATGAAAAGAGGAAGAAGTTTGAGAAAAAGACT
GAATAAATATCTCACGTAAACCTTCCTGAAAGATAAACGTTTTCTGAATTCAGAAACTAGTAGCTAACATTGCT
TCTGGAGAGCAGAAATAAGCATGTCTTCTGGCTACTAAGTGATAAAAAGAACATTAACAACCTTTAATTACCTTC
CTAGTGGGAACTTTTTCTACTTTACCTACAAGTTCTATATATGTAGAAATGAATAAATATATATTTAAGTACAGT
TTTCATGAGGAAGTTTTTAAAGACCATGTTCCCTAAGCTTCCAAGAAGGTTTTTGGATACTAGAAAGTATTAATCTAT
GGCTTTTTCTCCAGTAAACCATAGGCCTGAAGTTCACATTGGGTCTTTAAATCTTTTAGATATATACTGGTCAT
TTCAGAAAATTCTTCATAGTGGTATTGGCCTTATATTTAACTTTTTTTTTTTTTTTTGGAGACAAAGCCACA
CTCTGTCTCCTTGGCTGGAGTGTGGTGGCACAGTCTCAGCTCACTGCAACCTCTGCCTCCAGTTCAAGCAATTC
TTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCCGCCACCACGCCAGCTAATTTTTGTATTTTTTGTA
GAGATGGGGTTTACAGATGTTGGCCAGGCTGGTCTCAAACCTTCTGACC1CAAGTGATCTGCCCACCTTGGCCTCC
CAAAGTGCTGGGATTACAGGTGTAAGCCACTGCGCCCGGCCTTTTTAACTTTAAACATGTTTTAGAAATCACCTA
AAGATCAAAATATCATGGATTGAACCTCATCAATTGATAGCAGTGAGTGAAGCTTCCAAATCAAGAAAAGC
CGGCACCAAGAACCTCCATTCTAATCTAGAGCTGACCAGTTTGAGCTGATTCTCTCTTTGAAGAGTCTTCTTGA
TTGAGTGCAGTACTGGCATTCTGAATGGATGTAAGTGGAGTATTTTAGTCTAAAGGCTTTTCAAATTACTTGA
ATTTTTTTAAAAATTGAGGAGCTTTATTTCTATTTACCCTTCATTTTTTGTGTGAAAAAAAAAAAAAAAAA

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FIGURE 782

MATNESVSIFSSASLAVEYVDSLIPENPLQEPFKNAWNYMLNNYTKFQIATWGSLIVHEALYFLFCLPGFLFQFI
PVMKKYKIQKDKPETWENQWKCFKVLLFNHFCIQLPLICGTYFTEYFNIPYDWERMPRWYFLLARCFGCAVIED
TWHYFLHRLHHKRIYKYIHKVHHEFQAPFGMEA EYAHPLETLILGTGFFIGIVLLCDHVILLWAWVTIRLLETI
DVHSGYDIPLNPLNLIPFYAGSRHHDFFHMFIGNYASTFTWWDRIFGTDSQYNAYNEKRKKFEKKTE

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FIGURE 783

CTCTGAGGAGAAGCAGCAGCAAACATTTGCTAGTCAGACAAGTGACAGGGAATCGGATTCCAAACAGCAGTGTGTA
AAGCTAAATGATGGCCACTTCATGCCTGTATTGGGATTTGGCACCTATGCACCTCCAGAGGTTCCGAGAAGTAAA
GCTTTGGAGGTCACAAAATTAGCAATAGAAGCTGGGTTCGCCATATAGATTCTGCTCATTATACAATAATGAG
GAGCAGGTTGGACTGGCCATCCGAAGCAAGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCA
AAGCTTTGGTCCACTTTTCATCGACCAGAGTTGGTCCGACCAGCCTTGGAAAACCTCACTGAAAAAAGCTCAATTG
GACTATGTTGACCTCTATCTTATTTCATTCTCCAATGTCTCTAAAGCCAGGTGAGGAACTTTCACCAACAGATGAA
AATGGAAAAGTAATATTTGACATAGTGGATCTCTGTACCACCTGGGAGGCCATGGAGAAGTGTAAGGATGAGGA
TTGGCCAAGTCCATTGGGGTGTCAAACCTCAACCGCAGGCAGCTGGAGATGATCCTCAACAAGCCAGGACTCAAG
TACAAGCCTGTCTGCAACCAGGTAGAATGTCATCCGTATTTCAACCGGAGTAAATTGCTAGATTTCTGCAAGTCG
AAAGATATTGTTCTGGTTGCCTATAGTGCTCTGGGATCTCAACGAGACAAACGATGGGTGGACCCGAACCTCCCG
GTGCTCTTGGAGGACCCAGTCCTTTGTGCCTTGGCAAAAAGCACAAGCGAACCCAGCCCTGATTGCCCTGCGC
TACCAGCTGCAGCGTGGGGTTGTGGTCCTGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTT
TTTGAGTTCCAGTTGACTGCAGAGGACATGAAAGCCATAGATGGCCTAGACAGAAATCTCCACTATTTTAACAGT
GATAGTTTTGCTAGCCACCCTAATTATCCATATTCAGATGAATATTAACATGGAGAGCTTTGCCTGATGTCTACC
AGAAGCCCTGTGTGTGGATGGTGACGCAGAGGACGTCTCTATGCCGGTGACTGGACATATCACCTCTACTTAAAT
CCGTCTGTTTAGCGACTTCAGTCAACTACAGCTGAGTCCATAGGCCAGAAAGACAATAAATTTTTATCATTTTG
AAAT

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FIGURE 784

MDSKQQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSTFHRPELVRLPALENSLKKALDYVDLYLIHSPMSLKPGEELSPTDENGKVIFDIVDLCTTWEA
MEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPCNQVECHPYFNRSKLLDFCKSKDIVLVAYSALGSQRDK
RWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTAEDMKAIDGLD
RNLHYFNSDSFASHPNYPYSDEY

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FIGURE 785A

GATCTTAAGAAAGAGAGCAAGGAGGAAGAGCCCGGTGGGGAGCAGGTCTTCTCCCCACCCCCCTACCCCCAAC
TCCCCTGGAGCCGCATTGAGACTGTAGGCACCACCGGGCGCCGAATGGCTGTTTTCTAACTGGGATCCTCGGTG
ACGTATGGCTGCCTGCCCTTGGCAGCTGTCTTTATGGACCAGTAGGCAGAGCGAAATTGACGCTGACAAGACTT
TTGCATCTTGAAGGGACTGTAATCTACTGTAGTGAAGAACAGAGCCTCTCAATCAGACGGGTGTAAATAAGAGA
CGGAGGGGAGTCCAAAAGAAAAGGAAGAGGAGGAAAAACAAGTGTGTGTTGGGGGGAACAGGGGGAAAAGCATT
TTGGTGGATGGTATGAAGCCAGCCATGGAAGTGCAGCCGAGGAAAAATACTGAACAAAGCCAAGAGAGAAAAGGT
TCAGGCTGCTTTGAATGCTGCATCAAGTGTCTGGGAGGAGTCCCTACGCCCTCCCTGGTGGCCACCATCCTCTGC
TTCTCCGGGGTGGCCTTATTCTGCGGCTGTGGGCATGTGGCTCTCGCAGGCACCGTGGCGATTCTTGAGCAACAC
TTCTCCACCAACGCCAGTGACCATGCCTTGCTGAGCGAGGTGATACAACCTGATGCAGTATGTCATCTATGGAATT
GCGTCTTTTTCTTCTTGTATGGGATCATTCTGTTGGCAGAAGGCTTTTACACCACAAGTGCAGTGAAAGAAGT
CACGGTGAGTTTAAAACAACCGCTTGTGGCCGATGCATCAGTGGAATGTTCTGTTTTCTCACCTATGTGCTTGA
GTGGCCTGGCTGGGTGTGTTTGGTTTCTCAGCGGTGCCCCGTGTTTATGTTCTACAACATATGGTCAACTTGTGAA
GTCATCAAGTCACCGCAGACCAACGGGACCACGGGTGTGGAGCAGATCTGTGTGGATATCCGACAATACGGTATC
ATTCCTTGAATGCTTTCCCGGAAAAATATGTGGCTCTGCCCTGGAGAACATCTGCAACACAACGAGTTCTAC
ATGTCTTATCACCTGTTTATTGTGGCCTGTGCAGGAGCTGGTGCCACCGTCATTGCCCTGCTGATCTACATGATG
GCTACTACATATAACTATGCGGTTTTGAAGTTTAAAGAGTCGGGAAGATTGCTGCACTAAATTTCTAAATTGCATAA
GGAGTTTTAGAGAGCTATGCTCTGTAGCATGAAATATCACTGACACTCCAGACTAAAGCAGAGTCTAGGTTTTCTG
CAATTTTGTACAGTAATTTGTAAATAGCTTTAGTAACTCACCTTGCATGGTAGATTAAATAAGATGACTTACTG
TACATGAATTACACAATAATGAGATCTGGTGGCTATTTCCACATTTTGAAGGATTGAGTTATTTACTGACAGT
GGTGAGCATCCTTTTTTAAATAATGTTCTCATACTTAAACATTAGAGAGCAGTATCTTTAAATGAATTATTAACA
CTTTGGAATACTTACATTTTCTGTTATTTTGAATTGCCTGATAACCAAGTTTCAATGATGAAAATGAAAACAAGTG
CTGAAGATGAAATGGAAGAGAACCGTTTTAATCTGGATTTTGTGTTTGTACACCTGGAAAATACTTTGCAAAAT
GTTCTAAATTGAAAACAATTTTTTATGATCACATGGTTCCTACCAATGACCTCAAATAAGCCAGATGAAAA
TTTGAAGAAAAGGTACCCAGTTCTCTGGAAAAAAGGATTTATATGTGGGT
AGTTTTTTTTTGGTACAACACAATCATTCTGTTAGAGCCCAAAAATTGGTAACCTTAAATTGTGTGTTTTGGT
AAGTAATAACTAAGTGTTCCTCATAGCTAGTTCTCAAGCTGCATGTAAGATTTTAAACGGGAAGAGAAAATAGGC
CTGGACCTGAAGGTCTCAAATATGTTGAGAAGAAAGTATGAACATAAGGAACCTGAGATGTAGATTTATTTTGC
AGGAAATACGAGGAAAATAGGAAAGAGTGTGTCGCGCATCAAGTGTAAGAAATGATACTGAGGATTTTACATT
TTATGAAATGAAATAATGGCATTACAAAATGAAAAATGTAGTTTCACTAAGTTTTGTAAACAGAGACTGCA
TGCTTTGCTTATAGTTCTTAATTTTGGTTTTGACATTCAATTAATTTTCCATGTTAAATATGTAGTTTAATTA
TTTACTCAAAATAAACATTGTTTATGCTTTTAGGCCTTTGGGGGAATTGATTTTTATCCACAGGTAGAAAATGGT
CTTTGCACACACTACACTTATTTCAAATATACAATGTGCTCCCGAAGTTTTCGATTAGTCTTTAAAATTACTCTC
AAAATGGTATTAAAAAAGCACCCTCTCGTATTTTCAATTTTGTCTTTTCTTAACAATACCTTTGGC
CATTTTTTCCAGTTCACTATGTTTGTATACTAATTTTCTTCAGCCTTTAATGCGAAGCCAAGTATAGAGCA
TGCTTTTCCAGGATCTGACAGCTCTGCTAGTAGAGCGAGTATTTATTAATACAGAATTAACCTTCGCCCCCTTAAAG
TCAAGTCTGTCTAATCTAACTAGCGCTCGCTTTGCCTTCTCACAATGCTCACTAGCCATCATGCTCACCTTCT
CTTCCAGATCCACTTCTCATGATACTGTCTTCTAACTGGGCTTACTTAAAGGATGCGAGCAAAATGCAGGCTTA
CCAGGATATCAAAGCAAAGGAAGAACAGGAAGTCAAGATATCCAGTCTCGGTCAAAGAACAAGTCAATTTCTTA
CACATAAATGTTTGGCAGAGTGTTCGGCCGACGTATTTACAGCTCTGACAAATCATCAGACAGCTGCTCTGCAG
TACAGATGTGTATCCCAACAACTAATGTAGATGTACAAACACTTCACTGTCTGTCTCAAGCTGCTGGGATGTAT
CTCTAGGAAAACCTTCCAGTGGGTAAATCTTTTCTTTAGAACAAATATTGGAGGTTTCATGTTAGCCATTTTAA
AAGGCAACACTTTGACAAAATGATCGTTCATACTTTGGGAATTTGTGGCATGTTACATTTATTGCTAGGGCAAT
TCTACCAAGACACTCAATGGAATATGTCACACTCCTTAATAGGGACCTGTGACTCCTTAATAAGGACCTGTGACA
TGCCCAGCATCAAGGGATAAGACCGTAAATTCACATATATGCCATCTGTCTCAAGTGTTATCTACATAGGAAAT
AAAATGGAATTGATGTAAAGTTCATTTCTGACAGCTGACATTTATTAACCTTTGGATCAAAGATAATGTGATTC
TTATGATTGATTTCTCAAAGTCTTTCCCTCCCAAGTCCAGGACCCATTAATTTCTGAGCCAATCAGAAATA
TATTTTTCAATAATGCTAAATAGCTACAATCTGCTGACCCTACTATTAAAGAATCTGGATGCTGGACTCACT
GACAAGCTTTCCAGAAGCAATTTTATAACAGATTTTCAATTTTAAACAAATACTGATCCAATTTTCAATTTCTTGA

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FIGURE 785B

GAAATGTCAGCTTTGCCTTAAATGAGTATTTGCTTTAAATTTCTAAGAATTTATATCATAACTAGAGACCCAAATA
TCTTTCACAGAATTTTGTTCATAAATGTTTTCTTAATTATTAAGAAGTGTACCTTATTAAAATGACCACCAT
TCTAAACCATTTTTTCAGTGGTCTGGATACGAAGTTTACAGTTTCATACCAACTATCTAAAACCTAATTGCAAATT
GACCACAGACCTCTAACCTCCTACTTTTATAGACTTGAATACTTAAGTAATTTAAATTAGGGTTGGTATTTTCATT
TTTTCTTATCTAAATCTTAGTTTCTGGAATAATAAAGTTTGATGTTTCAGCAAGAGAAGTCTTGAGTTTAAGC
CATTTTCAAAGAAACTTGCCTTTTACATTATTGTGTTCCAGAACATTAAGTGACTGTAGGTACTGGGTATTAGT
GATGGTAACTTTGTGTTGCTCTTTATGAAATGATCCATATAACTGTTGGGTGCATCAGTGCTTTTCAAAGGGGC
TGCTTACTATAGGGTTAACTATGTATATTCATTGTTAAGAGTTAACTTGTGGTTTGGCTGTTTCTGGATTTTAT
AACATACATGTGCAGAAATGTATTCAAATGAAAGGAAGCATACCTTTATCAAGATGCTATTAAAATTGAACATCA
AGTATAATATTTTCATTTGGATTCTCTTTTTTGGTTAATGCCTAAAAATGCCTATTTGGGATTTTTTTTTTTTTT
AAATTAAGAGAAGCTCTCTTCTGTGTAGAACAGTTGTTCAAAAATAGCTTAGTGTTTTGTTTTCTGTTGCATGA
CAGATTTAACTATTCTTTCCAGCAGTGGAGGTGCTGTCAGAGTCCAGTGTTCTAGAAGAGGCAGTGCTAAAGCC
TAATTTTACTTTTTCTAATTCTGGTAGCTATTACCAGGAATTTTGAAGTTTTGTTTAAGTAGTCTAATATTTTT
TTATGTAAAGAGCATTAAATTTTGCTATGTATAAATTTTGTAACTAACAGTGAATCAATATTTTCTATCAGTG
CCAAGGGCTTCCTGTAGTTCTATTCAAGTGTTACAATAAATATTTGTAGATAATAGTCAATACTTGTGTATGCTT
ATTTTAAAGATCTATTTAGGTGGAAATAGTTGTGGATGTACTAAGAGTAATGAAATAAAATTATAGCTTCATTCA
CTTGCCTTTTTACCATACATAAATCCTATCTTTCTTGTCTCAGTATGGTTTCACTTTT

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FIGURE 786

MKPAMETAAEENTEQSQERKSGCFECCIKCLGGVPYASLVATILCFSGVALFCGCGHVALAGTVAILEQHFSTN
ASDHALLSEVIQLMQYVIYGIASFFFLYGIILLAE GFYTTS AVKELHGEFKTTACGRCISGMFVFLTYVLGVAWL
GVFGFS AVPVFMFYNIWSTCEVIKSPQTNGTTGVEQICVDIRQYGIIPWNAFP GKICGSALENICNTNEFYMSYH
LFIVACAGAGATVIALLIYMMATTYNYAVLKFKSREDCCTKF

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FIGURE 787

GGGCACGAGGGCAGAGCCAGTTCTTAGCGCAGAGCCGCGCCCGCCATGAGGGAGATCGTGACATCCAGGCGGGC
CAGTGCGGGAACCAGATCGGCACCAAGTTTTGGGAAGTGATCAGCGATGAGCACGGCATCGACCCGGCCGGAGGC
TACGTGGGAGACTCGGCGCTGCAGCTGGAGAGAATCAACGTCTACTACAATGAGTCATCGTCTCAGAAATATGTG
CCCAGGGCCGCCCTGGTGGACTTAGAGCCAGGCACCATGGACAGCGTGCGGTCTGGGCCTTTTGGGCAGCTTTTC
CGGCCTGACAACTTCATCTTTGGCCAGACGGGTGCAGGGAACAAC TGGGCGAAAGGGCACTACACGGAGGGCGCG
GAGCTGGTGGACGCAGTGCTGGACGTGGTGCGGAAGGAGTGCGAGCACTGCGACTGCCTGCAGGGCTTCCAGCTC
ACGCACTCGCTGGGCGGCGGCACGGGCTCAGGCATGGGCACGCTGCTCATCAGCAAGATCCGTGAGGAGTTCCCG
GACCGCATCATGAACACCTTCAGCGTCATGCCCTCGCCCAAGGTGTCGGACACGGTGGTGGAGCCCTACAATGCC
ACACTGTCGGTGCACCAGCTGGTGGAGAATACAGACGAGACCTACTGCATCGACAACGAGGCGCTCTATGACATC
TGCTTCCGCACTCTGAAGCTGACAACGCCCCACCTACGGGGACCTCAACCACCTGGTGTCCGCCACCATGAGTGGG
GTCACCACCTCGCTGCGCTTCCCGGGCCAGCTCAATGCTGACCTGCGCAAGCTGGCGGTGAACATGGTGCCTTC
CCGCGCCTGCACTTCTTCATGCCTGGCTTCGCGCCGCTCACCAGCCGCGGCAGCCAGCAGTACCGGGCCCTGACC
GTGCCCCGAGCTCACCAGCAGATGTTTCGACGCCAGGAACATGATGGCCGCTGCGATCCGCGCCATGGCCGCTAC
CTGACCGTGGCCACCGTGTTCCGCGGGCCCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGGCCATCCAGAGT
AAGAACAGCAGCTACTTCGTGGAGTGGATTCCCAACAACGTGAAGGTGGCCGTGTGCGACATCCCGCCCCGCGGC
CTGAAGATGGCCTCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTC
TCAGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTTCACGGGTGAGGGCATGGATGAAATGGAGTTCACCGAG
GCGGAGAGCAACATGAACGACCTGGTATCCGAGTACCAGCAGTACCAGGATGCCACCGCCAATGACGGGGAGGAA
GCTTTTGAGGATGAGGAAGAGGAGATCGATGGATAGTCGGAATAGAGCCGCCCAACTCAGATCCTACAACACGC
AAGTTCCTTCTTGAACCCTGGTGCCTCCTACCCTATGGCCCTGAATGGTGCCTGTTTAAATTGTGTTGGTGTGCG
GCCCCTCACAAATGCAGCCAAGTCATGTAATTAGTCATCTGGAACAAAGACTAAAAACAGCAGAGAATTGCGGGT
TCTACCCAGTCAGAAGATCACACCATGGAGACTTCTACTAGAGGACTTGAAAGAGAACTGAGGGGCCACAAAAT
AACTTCACCTTCCATTAAAGTGTTCAGCATGTCTGCAAAATTAGGAGGGAGTTAGAAACAGTCTTTTTCATCCTT
TGTGATGAAGCCTGAAATTGTGCCGTGTTGCCTTATATGAATATGCAGTATGGGACTTTGAAATAATGATTATA
ATAAAATACTAAACGTGTGTCTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 788

MREIVHIQAGQCGNQIGTKFWEVISDEHGIDPAGGYVGDSALQLERINVYYNESSSQKYVPRAALVDLEPGTMDS
VRSGPFGQLFRPDNFI FGQTGAGNNWAKGHYTEGAELVDAVL DVVRKECEHCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEFDPDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTIDETICYIDNEALYDICFRTLKLTPTTYGDL
NHLVSATMSGVTTSLRFPGLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDARNMM
AACDPRHGRYLTVATVFRGPMSMKEVDEQMLAIQSKNSSYFVEWIPNNVKVAVCDIPPRGLKMASTFIGNSTAIQ
ELFKRISEQFSAMFRRKAFLHWFTEGEMDEMEFTEAESNMNDLVSEYQQYQDATANDGEEAFEDDEEEEIDG

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FIGURE 789

GAGCTAGCTTTGCAAT**ATG**GCGGCCGAGGCGGACGGACCGCTTAAACGGCTGCTCGTGCCGATTCTTTTACCTGA
GAAATGCTACGACCAACTTTTCGTTTCAGTGGGACTTGCTTCACGTCCCCTGCCTCAAGATTCTCCTCAGCAAAGG
CCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAAATCCGGGGAGCCAAGAG
TGCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCATTGACTGGGACCATGGTCTACAGCATCAC
TAACAACCTCCCATTCAGCTCTTGGGGTGAAGCCTTATTCCTGATGCTCCAGACGATCACCATCTGCTTCCTGGT
CATGCACTACAGAGGACAGACTGTGAAAGGTGTCGCTTTCCTCGCTTGCTACGGCCTGGTCTGCTGGTGCTTCT
CTCACCTCTGACGCCCTTGACTGTAGTCACCCTGCTCCAGGCCTCCAATGTGCCTGCTGTGGTGGTGGGGAGGCT
TCTCCAGGCAGCCACCAACTACCACAACGGGTACACAGGCCAGCTCTCAGCCATCACAGTCTTCCTGCTGTTTGG
GGGCTCCCTGGCCCGAATCTTCACTTCCATTCAAGAAACCGGAGATCCCCTGATGGCTGGGACCTTTGTGGTCTC
CTCTCTCTGCAACGGCCTCATCGCCGCCAGCTGCTCTTCTACTGGAATGCAAAGCCTCCCCACAAGCAGAAAAA
GGCGCAG**TAG**AGCCAGCTACTGGAGTCATTCCGTTTCCACTCATTACCCAACTCAGGGTTCTCCCCATCTGAG
CCAGCCTGCTGGTGTGACTTACTCATCCTCCATTCTCTGCACTTGACAGACTTTCTGAGCCAGGGTTTTCTTTTA
GTGGAACAAATGGTTGATGGATCCAGATCCTTAGAAAAGGAGAGGATGGGGGTAGAGTCTCCAAGCCAAAATT
TTGACATTTGAGTGCTTTTCGTAAGCCCTGTACATGTACTATTAATTCAGTCATTACAGCCAAGCCTCCTCCTCTAG
CAGCAATTTCCAGCTGTTTAACTATCCTGGGCAAATGTTTTACCCTGTCCTCCAGCCTCCCTGCTTCCCTTCT
GGCCCTGGAAGACTGAGTCTGGACGGCAGAGTGGAGGGACTGGGAGGCTGTGGCTGCCTCCCTCCCTCAGCCGG
CTGGGACTGTCTCCCGACCCAGTGTCTGGGTGGGGGAAGGGGACGGAGAATGACTCAGGCAGGGCCCCAGGG
TGGGGTGAGGAGGTTCTGCTCTGGCAGGTCTAGGCGGAAGGGAGTGGAGATGGGGCTGGTTGCTGCTGCAGTGA
GGGGAACAGATGGGACAATAAAGACTGGAGACTCAGTTGAATAATGCAAAAAAAAAAAAAA

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FIGURE 790

MAAEADGPKRLLVPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKIRGAESAEGLS
LQSVMLELVALTGTMVYSITNNEPFSWGEALFLMLQTITICFLVMHYRGQTVKGVAFLACYGLVLLVLLSPLTP
LTVVTLLQASNPAVVVGRLLQAATNYHNGYTGQLSAITVFLLFGGSLARIFTSIQETGDPLMAGTFVVSSLCNG
LIAAQLLFYWNAKPPHKQKKAQ

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FIGURE 791

CGCCCCCTTAGGGTGCTCGCCGGCTGTCCGGTGTGGGGGTATGCCAGGCCCCGGAGGACTCGGCTTCCCCGCTAA
CCCCACCCGCCGCACCCACCCAGGCCAGGTCAGAGCAGCCCCACCATGGGATGGGGAGGGGGTGGAGGCTGCACC
CCCCGCCACCCATCCACCAGCAGCCGCCGGAGCGCCGCGTGGTCATCGTTGTCTTTCTCGGCCCTCCTGCTGGAC
CTCCTGGCCTTCACGCTGCTGCTGCCCCTGCTGCCCCGGGCTGTTGGAGAGCCACGGCCGTGCCACGACCCCCCTC
TATGGCTCCTGGCAGGGCGGGGTGGACTGGTTTGGCACCGCCATCGGGATGCCAGTGGAGAAGAGGTACAACAGT
GTCCTGTTCGGAGGTCTCATTGGCTCGGCATTCTCTGTCTGCTGAGTTTCTGTGTGCGCCACTCACTGGGGCCACC
TCTGACTGCTTGGGGAGGCGCCCGGTGATGCTGCTGTGCCTGATGGGTGTGGCCACCTCATATGCAGTCTGGGCC
ACCTCTCGGAGCTTTGCGGCCCTTCCTGGCCTCCAGGCTGATTGGGGGCATCAGCAAAGGGAACGTCAGCCTCTCC
ACGGCCATCGTTGCTGACCTGGGCTCGCCTCTGGCCCCGAGTCAAGGCATGGCGGTCAATTGGGGTGGCCTTCTCA
CTGGGCTTCACCCCTGGGCCCTATGCTCGGAGCCTCCCTGCCCCCTGGAAATGGCACCCCTGGTTTGGCCTGCTCTTC
GCAGCCTCCGACCTGCTGTTTCATCTTCTGCTTCCTGCCAGAGACGCTGCCCCCTGGAGAAACGGGCGCCCTCTATC
GCCCTGGGGTTCCGTGATGCGGCTGATCTGCTCAGCCCCCTGGCCCTGCTGCGCTTCTCGGCTGTGCTCGTGGC
CAGGACCCACCCCTCTGGAGACAGGCTCAGCAGCCTGCGCCGCTGGGCCTAGTCTACTTCTCTACCTCTTCCTG
TTCTCGGGCCTGGAGTACACGCTGAGCTTCCTCACACACCAGCGCTTCAGTTTCAGTAGCCTACAGCAGGGGAAG
ATGTTTTTTCCTCATCGGCCTCACCATGGCCACCATCCAGGGTGCCTATGCCCGGCGGATCCACCCTGGCGGGGAA
GTTGCTGCCGTGAAGCGGGCCCTCCTGCTGCTGGTGGCCGCTTCCTCCTCATCGGCTGGGGACGTTCTCTGCC
GTGCTGGGCCTGGGGCTGCTGCTCTACTCCTTTGCCGCCGCGCTTGTGGTGGCCTGCCTGTCTCTCCGTGGTGGT
GGCTATGGCTCACCAGGGCAGAAGGGCACGGTCATGGGTACACTGCGCAGCCTAGGTGCTCTGGCCAGGGCCGCG
GGGCCCTGGTGGCCGCTTCAGTGTACTGGCTGGCCGGGGCCAGGCCTGCTTCACCACGTGGTCCGGGCTCTTT
TTGCTCCCCCTTCTTCCTCCTGCAGAAGCTGAGTTACCCGGCACAGACGCTCAAGGCTGAGTAGCTGAGCCACTGT
GCCCAGGCTGTGGGCACCAGGCAGAGTGGGAGCCTAGGTCAGGCCCTGCCACTGCCTGACCCCCACCCCCGC
CAGTCCAGGGAGACCTGTGGGTGGGGCCGGCCCCCTAAGCAGGAAGCTCAGGCAGCTCCTCCAGACTTACTTAC
TCCTTCAGTGACTCCGAGCTGCAGCACTCCAAGGCTGTCAGGGCTTCTGTTTGTTTTTTAAACTATGCACCAGGT
TTCTGATGATGAAATAAAGCACCTGTTTGT

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FIGURE 792

MGWGGGGGCTPRPPIHQPPERRVIVVFLGLLLDLLAFTLLLP LLPGLLESHGRAHDPLYGSWQGGVDWFATAI
GMPVEKRYNSVLFGGGLIGSAF SVLQFLCAPLTGATSDCLGRRPVMLLC LMGVATSYAVWATSRSF AAF LASRLIG
GISKGNVSLSTAIVADLGSPLARSQGM A VIGVAFSLGFTLG PMLGASLP LEMAPWFALLFA ASDLLFIFCFLPET
LPLEKRAPSIALGFRDAADLLSPLALLRFS AVARGQDPFSGDRLSSLRRLGLVYFLYLF LFSGLE YTL SFLTHQR
FQFSSLQQGKMFFLIGLTMATI QGAYARRIHPGGEVAAVKRALLLLVPAFL LIGWGRSLPVLGLG LLLYSFAAAV
VVPCLSSVVAGYGS PGQKGTVMGTLRSLGALARAAGPLVAASVYWLAGA QACFTTW SGLFLLPFFLLQKLSYPAQ
TLKAE

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FIGURE 793

ACGCCCTATACAACCTTGGCTTCACATACTTTTACACTAACTTTATATGATTTTTTAAAACTGGTCTGATCGGACT
TCTCGTCCTGGGACACTGTTTACTGGAGTCTGGCCGGCTCTCCGTGCTCCTCTTGGTACCTCATTITGGGGAGAA
CCTTAAACCCACTCGAGCAGATAATCTCCGCCTTGACCGGTGCCACCAAAGAAGGGTTGGAACCATGTGGAAGCTTT
TCTGGGCATTGCCACTTTACCTATTTTTATAAGAAGTTGCGGGACTTCATCACTTTGGCCAACAGGGAGGTCTCT
GTTGTGCGTGCTGGTGTTCCTCTCGCTGGGCCTGGTGCTCTCCTACCGCTGTGCCACCGAAACGGGGGTCTCCT
CGGGGCCAGCGGAGCGGCTCCAGTTCGCCCTCTTCTCGGATATTCTCTCAGGCCTGCCTTTTCATTGGCTTCTT
CTGGGCCAAATCCCCCCTGAATCAGAAAATAAGGAGCAGCTCGGGGCCAGGAGGCGCAGAAAAGGAACCAATAT
TTCAGAAACAAGCTTAATAGGAACAGCTGCCTGTACATCAACATCTTCTCAGAATGACCCAGAAGTTATCATCGT
GGGAGCTGGCGTGCTTGGCTCTGCTTTGGTAGCTGTGCTTTCCAGAGATGGAAGAAAGGTGACAGTCATTGAGAG
AGACTTAAAAGAGCCTGACAGAATAGTTGGAGAATTCTGCAGCCGGGTGGTTATCATGTTCTCAAAGACCTTGG
TCTTGGAGATACAGTGGAAGGTCTTGATGCCAGGTTGTAAATGGTTACATGATTTCATGATCAGGAAAGCAAATC
AGAGGTTTCAGATTCTTACCCTCTGTTCAGAAAACAATCAAGTGCAGAGTGGAAGAGCTTTCCATCACGGAAGATT
CATCATGAGTCTCCGGAAGCAGCTATGGCAGAGCCCAATGCAAAGTTTATTGAAGGTGTTGTGTTACAGTTATT
AGAGGAAGATGATGTTGTGATGGGAGTTTCAGTACAAGGATAAAGAGACTGGAGATATCAAGGAAGCTCCATGCTCC
ACTGACTGTTGTTGCAGATGGGCTTTTTCTCCAAGTTCAGGAAAAGCCTGGTCTCCAATAAAGTTTCTGTATCATC
TCATTTTTGTTGGCTTTTCTTATGAAGAAATGCACCACAGTTTAAAGCAAATCATGCTGAACCTATTTTTAGCTAACC
GAGTCCAGTTCTCATCTACCGGATTTTCATCCAGTGAAACTCGAGTACTTGTGACATTAGAGGAGAAATGCCAAG
GAATTTAAGAGAATACATGGTTGAAAAAATTTACCCACAAATACCTGATCACCTGAAAGAACCATTCTTAGAAGC
CACTGACAATTCTCATCTGAGGTCCATGCTAGCAAGCTTCCTTCCTTCATCAGTGAAGAAACGAGGTGTTCT
TCTTTTGGGAGACGCATATAATATGAGGCATCCACTTACTGGTGGAGGAATGACTGTTGCTTTTAAAGATATAAA
ACTATGGAGAAAAGCTGCTAAAGGGTATCCCTGACCTTTATGATGATGCAGCTATTTTCGAGGCCAACAAATCATT
TTACTGGGCAAGAAAAACATCTCATTCCTTTGTGCTGAATATCCTTGCTCAGGCTCTTTATGAATTATTTCTGC
CACAGATGATTCCCTGCATCAACTAAGAAAAGCCTGTTTTCTTTATTTCAAACCTGGTGCCGAATGTGTTGCGGG
TCCTGTTGGGCTGCTTTCTGTATTGTCTCCTAACCTCTAGCTTTAATTGGACACTTCTTTGCTGTTGCAATCTA
TGCCGTGTATTTTTGCTTTAAGTCAGAACCTTGGATTACAAAACCTCGAGCCCTTCTCAGTAGTAGTGCTGTATT
GTACAAAGCGTGTTCTGTAATATTTCTCTAATTTACTCAGAAATGAAGTATATGGTTTCATTAAGCTTAAAGGGG
AACCATTTGTGAATGAATATTTGGAAGTTACCAAGTCCTAAGAGACTTTTGGAAGAGGATATATATAGCATAGTA
CCATACCACTTATAAAGTGGAAGCTCTTGGACCAAGATTGGATTAAATTTGTTTTTGAAGTTTTTGTATATAAA
TATGTAAATACATGCTTTAATTTGCAATTTAAATGAAGGGGTTAAATAAGTTAGACATTTGAAAGAAATGATTG
TTACCATAAATTAGTGCTAATGCTGAGGAGAACTACAGTTTTTCTTTTGAATTTAGTATTTGAGATGAGTTGTTG
GGACATGCAATAAAATGAAGAATGAC

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FIGURE 794

MWTF LGIATFTTYFYKKFGDFITLANREVLLCVLVFLSLGLVLSYRCRHRNGLLGRQRSGSQFALFSDILSGLPF
IGFFWAKSPPESENKEQLGARRRRRKGTNISETSLIGTAACTSTSSQNDPEVIIVGAGVLGSALVAVLSRDGRKVT
VIERDLKEPDRIVGEFLQPGGYHVLKDLGLGDTVEGLDAQVVGMIHDQESKSEVQIPYPLSENNQVQSGRAFH
HGRFIMSLRKAAMAEPNAKFIEGVVLQLEEDDVVMGVQYKDKETGDIKELHAPLTVVADGLFSKFRKSLVSNKV
SVSSHVVGFLMKNAPOFKANHAELILANPSPVLIYRISSETRVLVDIRGEMPRNLREYMVEKIYPQIPDHLKEP
FLEATDNShLRSM LASFLPPSSVKKRGVLLLGDAYNMRHPLTGGGMTVAFKDIKLWRKLLKGIPDLYDDAAIFEA
NKSFYWARKTSHSFVFNILAQALYELFSATDDSLHQLRKACFLYFKLGGECEVAGPVGLLSVLSPNPLALIGHFFA
VAIYAVYFCFKSEPWITKPRALLSSSAVLYKACSVIFPLIYSEM KYMVH

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FIGURE 796

MERASLIQKAKLAÉQAERYEDMAAFMKGAVEKGEÉLSCEERNLLSVAYKNVVGQRAAWRVLSSIEQKSNEEGSE
EKGPEVREYREKVETELQGVCDTVLGLLDSHLIKEAGDAESRVFYLKMGDYYRYLAEVATGDDKKRIIDSARSA
YQEAMDISKKEMPPTNPIRLGLALNFSVFHYEIANSPÉEAI SLAKTTFDEAMADLHTLSEDSYKDSTLIMQLLRD
NLTLWTADNAGEEGGEAPQEPQS

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FIGURE 797

AAGCACGGCCAGCGCGCTCGGACTGCAAGAGGGTTAAAAGTGTAGATTGGATTTACCCCTGGAACCTCTAGCACG
CCGAGTGAACCTTGAATCTTTGGCTATTTAAGGAGGACTGGGTTTGTGTGAAGTTGCGGTGATCCAGCGCAGAGC
CCCGTCCTGATTGATCGCATCGCGGGGGCTCAGATGACTGTAAAATGAATAGATGAAATCTTGCTTCTCGAAGA
TTTTCTTGGGCATCTCCCGGAAAGTGCGTTTTAAGGCGAAGTCATGATGTATTCTCCCATCTGTCTCACTCAGGA
TGAATTTACCCATTTCATCGAGGCACCTTCTTCCACATGTCCGTGCAATTGCCTATACTTGTTTCAACCTGCAGGC
TCGAAAACGCAAGTACTTTAAAAAGCATGAGAAGCGAATGTCAAAGGATGAAGAAAGAGCAGTCAAAGATGAGCT
TCTCAGTGAAGAGCCTGAAATCAAACAGAAAGTGGGCATCCAGGCTCCTTGCCAAACTGCGCAAAGATATTCGCCA
GGAGTATCGAGAGGACTTTGTGCTCACCGTGACTGGCAAGAAGCACCCGTGCTGTGTCTTATCCAATCCCCACCA
GAAGGGTAAGATTAGGAGAATCGACTGCCCTGCGACAGGCAGACAAAGTCTGGCGTCTGGATCTAGTCATGGTGTAT
CCTGTTCAAAGGCATCCCTTTGGAAGTACCGATGGAGAGCGGCTCATGAAATCCCCACATTGCACAAACCCAGC
ACTTTGTGTCCAGCCACATCATATCACAGTATCAGTTAAGGAGCTTGATTTGTTTTTGGCATACTACGTGCAGGA
GCAAGATTCTGGACAATCAGGAAGTCCAAGCCACAATGATCCTGCCAAGAATCCTCCAGGTTACCTTGAGGATAG
TTTTGTAAAATCTGGAGTCTTCAATGTATCAGAACTTGTAAGAGTATCCAGAACGCCCATAAACCCAGGGAACTGG
AGTCAACTTTCCCAATTGGAGAAATCCCAAGCCAACCATATCATGACATGAACTCGGGGGTCAATCTTCAGAG
GTCTCTGTCTTCTCCACCAAGCAGCAAAAGACCCAAAACATATCCATAGATGAAAATATGGAACCAAGTCTTAC
AGGAGACTTTTTACCCCTCTCCAAGTTCACCAGCTGCTGGAAGTGAACATGGCAGCAAGAGATCAAGATATGTC
TTCTCCGACTACTATGAAGAAGCCTGAAAAGCCATTGTTTCTGAGCTCTGCATCTCCACAGGATTCTTCCCCAAGACT
GAGCACTTTCCCCCAGCACCAACCATCCCGGAATACCTGGAGTTGCACACAGTGTCTCACTCGAACTCCACC
TCCACCTTCACCGTTGCCATTTCCAACACAAGCTATCCTTCCCTCCAGCCCCATCGAGCTACTTTTCTCATCCAAC
AATCAGATATCCTCCCCACCTGAATCCTCAGGATACTCTGAAGAACTATGTACCTTCTTATGACCCATCCAGTCC
ACAAACCAGCCAGTCTGTTACCTGGGCTAGCTTGGTTCCCTTTCCAAGTGTCAAATAGGACACCCATCTTACCGG
CCAATGTCCAAAATTACGGTTTGAACATAATTGGAGAACCTTTTCCTTCAAGCAGAAACAAGCAACTGAGGGAAAA
AGAAACACAACAATAGTTTAAGAAATTTTTTTTTTAAATAAAAAAAGGAAAAGAGGAAGACTGGACAAAAACAAC
ACAAAGGCAGAAAGGAAAGAAACTGAAGAAAGAAGATAATAGACCAGCAATTGCAGCACTTACAATCACTAATTC
CCTTAAGGTTGAAACTGTAATGACATAAAAAGGGTTCGATGATATTTCACTGATGGTAGATCGCAGCCCCCTGCAAC
GTAGCCTTTGTTACATGAAGTCCGCTGGGAAATAGATGTTCTGTCTCTATGACAATATATTTAACTGACTTTCT
AGATGCCTTAATATTTGCATGATAAGCTAGTTTTATTGGTTTAGTATTCTTGTTGTTTACGCATGGAATCACTAT
TCCTGGTTATCTCACCAACGAAGGCTAGGAGGCGGCTCAGAGATGCTGGGTGACAGAGCCATGAGCCAGCCATT
TTATAAGCACTCTGATTTCTAAAAGTTAAAAAATATATGAAATCTCTGTAGCCTTTAGTTATCAGTACAGATT
TATTAAATTTGGGCCCTTAACCCAGCCTTTTCCAGTGTGTAACCCAGTTTGAAATCTTAAAAAAGAAAAATGAA
AAAAAAGGAAAAAAGAAAAAAGGAAAAAACAGTTTGAACACAAAGGCTCTATGGAAGAAATGCCTCTATGTA
GGTGAAGTGTCTCTCTGCATGCAACAGTAAAAATTAATATAATATTTTCCCCACAAAAGAAACACTTAACAGAG
GCAAGTGAATTTATAAATTTATATCTAAAGGGGAATCATGATTATAAGTCCCTTCAGCCCTTGGAAGTCTAAATTG
AGGGGATTAAAAAGAATTTAAAAATAATTTTGAACGAATTTATTTTCCCCTCAGTTTTTGAGGGCATTAAAAAGGC
ATTAAATCAAGACAAATCATGTGCTTGAGAAAAATAAATTAATGAAAACACAGCACTTATGTTGGTTTAGCTGC
AGCCTCCTTGAGGAGTAGAATTTATTTATTTAAATTAAGTGTGATCAAGAACCCATAGGGTGTACAAAAGGTT
CTATAAATCTGCATTATAGAGACAAAGAGGCAGGCAATCCATGTCACAAGGTAAGCTTACAGTTTACAAAC
TGGGAACGCCAGGGTGTAGGATATAAAAACGCACCTCTTGAGAAAACAAATGTAATCAGGGTGTGAAAACCTTGCA
TGGTGCTTTTCAGACATTAGCCTTGTTCAACAAATTTCTTGATTGACAGATCCATAGTGTGCATGGGCAGACACA
TTTTGCCTCTATGTCTCTTAAATTTTAATTAATACTCTTTCCAGTAATCCTAATTTGCACGAAGATATAAT
GTCCACATTACGTGCCTTGCTTGAATCTAAAAACAAAAAACAACAAAAAATACAACAAAG
TGACATCACTACACTTGTGTTTGTGTCATTTATTATCATTTTAAATCTTTACCATTTTATGACAAAATATTTTGT
ACTCCAGACGAAGAAAAATGTGTGACATCATGGATTTTTTAGACAGTTATACCTTTATCTCACATTTATAAGCA
TATCATGGCTGTGTATAGTTGCCGCTTAAAAATTGTAATCGACCAGCAATATTTTCAAGTATTTTGGTGTTTTTT
CTATTAACCTTTTATGTTTTTCTCTTCCAATTAATTTTGGGGGGGAGGGGTTTCAAATTTATACGAATTATGC
AATACCAAGTTTGCCTATGTAGGTAGTGCTTTTAGCTGTATTGGTTATTATAGGTAAGTACACAGATT

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FIGURE 798

MMYSPICLTQDEFHPFIEALLPHVRAIAYTWFNLQARKRKYFKKHEKRMSKDEERAVKDELLSEKPEIKQKWASR
LLAKLRKDIRQEYREDFVLTVTGKKHPCCVLSNPDQKGKIRRIDCLRQADKVWRDLVLMVILFKGIPLESTDGER
LMKSPHCTNPALCVQPHHITVSVKELDLFLAYYVQEQDSGQSGSPSHNDPAKNPPGYLEDSEFKSGVFNSELVR
VSRTPITQGTGVNFPIGEIPSQFYHDMNSGVNLQRLSSPPSSKRPKTISIDENMEPSPTGDFYPSPPSPAAGS
RTWHERDQDMSSPTTMKKPEKPLESSASPDSSPRLSTFPQHHPGIPGVAHSVISTRTPPPPSPLPFPTQAILP
PAPSSYFSHPTIRYPPHLNPDTLKNYVPSYDPSSPQTSQSWYLG

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FIGURE 799

CCTGGAACCTCTAGCACGCCGAGTGAACCTGAATCTTTGGCTATTTAAGGAGGACTGGGTTTGTGTGAAGTTGCG
GTGATCCAGCGCAGAGCCCCGTCCTGATTGATCGCATCGCGGGGCTCAGATGACTGTAAAATGAATAGATGAAAT
TCTTGCTTCTCGAAGATTTTCTTGGGCATCTCCCGGAAAGTGCCTTTTAAGGCGAAGTCATGATGTATTCTCCCA
TCTGTCTCACTCAGGATGAATTTACCCATTTCATGGAAGCACTTCTTCCACATGTCCGTGCAATTGCCTATACTT
GGTTCAACCTGCAGGCTCGAAAACGCAAGTACTTTAAAAAGCATGAGAAGCGAATGTCAAAGGATGAAGAAAGAG
CAGTCAAAGATGAGCTTCTCAGTGAAGGCTGAAATCAAACAGAAGTGGGCATCCAGGCTCCTTGCCAAACTGC
GCAAAGATATTGCGCCAGGAGTATCGAGAGGACTTTGTGCTCACCGTGACTGGCAAGAAGCACCCGTGCTGTGTCT
TATCCAATCCCGACCAGAAGGGTAAGATTAGGAGAATCGACTGCCTGCGACAGGCAGACAAAGTCTGGCGTCTGG
ATCTAGTCATGGTGATCCTGTTCAAAGGCATCCCCCTGGAAAGTACCGATGGAGAGCGGCTCATGAAATCCCCAC
ATTGCACAAACCCAGCACTTTGTGTCCAGCCACATCATATCAGTATCAGTTAAGGAGCTTGATTGTGTTTTGG
CATACTACGTGCAGGAGCAAGATTCTGGACAATCAGGAAGTCCAAGCCACAATGATCCTGCCAAGAATCCTCCAG
GTTACCTTGAGGATAGTTTTGTAAAATCTGGAGTCTTCAATGTATCAGAACTTGTAAGAGTATCCAGAACGCCCCA
TAACCCAGGGAACTGGAGTCAACTTCCCAATTGGAGAAATCCCAAGCCAACCATACTATCATGACATGAACTCGG
GGGTCAATCTTCAGAGGTCTCTGTCTTCTCCACCAAGCAGCAAAAAGACCCAAAACCTATATCCATAGAYGAAAAATA
TGGAACCAAGTCTACAGGAGACTTTTACCCCTCTCCAAGTTCACCAGCTGCTGGAAGTCGAACATGGCACGAAA
GAGATCAAGATATGTCTTCTCCGACTACTATGAAGAAGCCTGAAAAGCCATTGTTTCAGCTCTGCATCTCCACAGG
ATTCTTCCCCAAGACTGAGCACTTTCCCCCAGCACCACCATCCCGGAATACCTGGAGTTGCACACAGTGTCTCT
CAACTCGAACTCCACCTCCACCTTCACCGTTGCCATTTCCAACACAAGCTATCCTTCTCCAGCCCCATCGAGCT
ACTTTTCTCATCCAACAATCAGATATCCTCCCCACCTGAATCCTCAGGATACTCTGAAGAACTATGTACCTTCTT
ATGACCCATCCAGTCCACAAACCAGCCAGTCTTGGTACCTGGGCTAGCTTGGTTCCCTTTCCAAGTGTCAAATAGG
ACACCCATCTTACCGGCCAATGTCCAAAATTACGGTTTGAACATAATTGGAGAACCCTTTCCCTTCAAGCAGAAACA
AGCAACTGAGGGAAAAAGAAACACAACAATAGTTTAAGAAATTTTTTTTTTAAATAAAAAAAGGAAAAGAGGAA
GACTGGACAAAACAACACAAAGGCAGAAAGGAAAGAACTGAAGAAAGAAGATAATAGACCAGCAATTGCAGCAC
TTACAATCACTAATTCCCTTAAGGTTAACTGTAATGACATAAAAAGGGTCGATGATATTTCACTGATGGTAGAT
CGCAGCCCCTGCAACGTAGCCTTTGTTACATGAAGTCCGCTGGGAAATAGATGTTCTGTCTCTATGACAATATAT
TTAACTGACTTTCTAGATGCCTTAATATTTGCATGATAAGCTAGTTTTATTGGTTTAGTATTCTTGTGTTTAC
GCATGGAATCACTATTCTGTTATCTCACCAACGAAGGCTAGGAGGCGGCGTCAGAGATGCTGGGTGACAGAGC
CATGAGCCAGCCATTTTATAAGCACTCTGATTTCTAAAAGTTAAAAAATATATGAAATCTCTGTAGCCTTTAG
TTATCAGTACAGATTTATTAAATTTTCGGCCCTTAACCCAGCCTTTTCCAGTGTGTAACCCAGTTTGAAATCTTAA
AAAAAGAAAAAATGAAAAAAGGAAAAAAGAAAAAGGAAAAAACAGTTTGAACACAAAGGCTCTATGGAA
GAAATGCCTCTATGTAGGTGAAGTGTCTCTCTGCATGCAACAGTAAAAATTAATATAATATTTCCCCACAAAA
GAAACACTTAACAGAGGGCAAGTGCAATTTATTAAATTTATATTCTTAAAGGGGGAATTCATGGATTATTAAGGT
CCTTCAGGCCCTTGGGGACTCTTA

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FIGURE 800

MMYSPICLTQDEFHPPFMEALLPHVRAIAYTWENLQARKRKYFKKHEKRMSKDEERAVKDELLSEKPEIKQKWASR
LLAKLRKDIRQEYREDFVLTVTGKKHPCCVLSNPDQKGKIRRIDCLRQADKVWRDLVLMVILFKGIPLESTDGER
LMKSPHCTNPALCVQPHHITVSVKELDLFLAYYVQEQDSGQSGSPSHNDPAKNPPGYLEDSEFVKSGVFNVSELVR
VSRTPITQGTGVNFPIGEIPSQFYHDMNSGVNLQRSLSPPSSKRPKTISIDENMEPSPTGDFYFSPSSPAAGS
RTWHERDQDMSSPTTMKKPEKPLFSSASPQDSSPRLSTFPQHHPGIPGVAHSVISTRTPPPPSPLPFPTQAILP
PAPSSYFSHPTIRYPPHLNPDTLKNYVPSYDPSSPQTSQSWYLG

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FIGURE 801

AGGCGCGGTTGTGAGTAGTACCGGGAGTGGGGTGATCCCGGGCTAGGGGAGCGCGGCGGCCGCGATCGGGCTTAG
TCGGAGCTCCGAAGGGAGTGACTAGGACACCCGGGTGGGCTACTTTTCTTCCGGTGCTTTTGCTTTTTTTTTCTT
TTGGGCTCGGGCTGAGTGTGCCCCACTGAGCAAAGATTCCCTCGTAAAACCCAGAGCGACCCTCCCGTCAATTGT
TGGGCTCGGGAGTGTGCGGGTGCCCCGAGCGCGCCGGGCGCGGAGGCCAAAGGGAGCGGAGCCGGCCGCGGACGGG
GCCCCGAGCTTGCCTGCCTCCCTCGCTCGCCCCAGCGGGTTGCTCGCGTAGAGCGCAGGGCGCGCGCGCATGAAG
GCGGTGAGCCCGGTGCGCCCCCTCGGGCCGCAAGGCGCCGTGCGGGTGC GGCGGCGGGGAGCTGGCGCTGCGCTGC
CTGGCCGAGCACGGCCACAGCCTGGGTGGCTCCGCAGCCGCGGGCGGCGGGCGGCGGCGGCGGCGGCGGCGGAGG
GCCGAGGCGGCGGCGGCGGAGCGCGGCGCTGTGCCTGCAGTGCATATGAACGACTGCTATAGCCGCTGCGGAGG
CTGGTGCCCCACCATCCCCGCCAACAAAGAAAGTCAGCAAAGTGGAGATCCTGCAGCACGTTATCGACTACATCCTG
GACCTGCAGCTGGCGCTGGAGACGCACCCGGCCCTGCTGAGGCAGCCACCACCGCCCGCGCCGCCACACCACCCG
GCCGGGACCTGTCCAGCCGCGCCGCCGCGGACCCCGCTCACTGCGCTCAACACCGACCCGCGCGCGGTGAAC
AAGCAGGGCGACAGCATTCTGTGCCGCTGAGCCGCGCTGTCCAGGTGTGCGGCCGCTGAGCCCCGAGCCAGGAGC
ACTAGAGAGGGAGGGGGAAGAGCAGAAAGTTAGAGAAAAAAGCCACCGAGGAAAGGAAAAAACATCGGCCAAC
TAGAAACGTTTTTCATTGCTCATTCCAAGAGAGAGAGAGGAAAGAAAAATACAACTTTTATTCTTTTGCACGT
TCATAAACATTCTACATACGTATTCTCTTTTGTCTCTTCAATTTATAACTGCTGTGAATTGTACATTTCTGTGTTT
TTTGGAGGTGCAGTTAAACTTTTAAAGCTTAAAGTGTGACAGGACTGATAAATAGAAGATCAAGAGTAGATCCGACT
TTAGAAGCCTACTTTGTGACCAAGGAGCTCAATTTTTGTTTTGAAGCTTTACTAATCTACCAGAGCATTGTAGAT
ATTTTTTTTTTACATCTATTGTTTAAAAATAGATGATTATAACGGGGCAGAGAACTTTCTTTTCTCTGCAAGAATG
TTACATATTGTATAGATAAATGAGTGACATTTCATACCATGTATATATAGAGATGTTCTATAAGTGTGAGAAAGT
ATATGCTTTAATAGATACTGTAATTATAAGATATTTTAAATTAATATTTTTTTGTAAATATTATGTGTGTGTTT
TTTTTTAATCTATGGGAATATTCTTTTGAAAAATCATTTTTTCAGCTCAATTACAGAGCTCTTGATATCTTGAAT
GCTTTTTCTGTTTGGCCTGGCTCTTAATTTGCTTTTGTGTTTGGCCAGTATAGACTCGGAAGTAACAGTTATAGCT
AGTGGTCTTGCAATGATTGCATGAGATGTTAATCACAAATTAACCTTGTCTGAGTCCATTCAAATGTGTTTTTT
TAAATGTAGATTGAAATCTTTGTATTGGAAGCATACATGTTGAAAATACACCTTATCAGTTTTTAAGTACAGGGT
TTTATAGTGTAATATATACAGAGTAAGTGTTTGTGTTTTGTTTTTCAACTGAGGTCAAAATGGATTCTGAATGATT
TTGCATATGGGATGAGGAAATGCTTGGATCCTTAAGGAGTTTACGAAATCTGCTGTTTTATCAAAGTGAAAAAA
ATTGCTTATTACTCTTCATTTTACACTAAAGCTTAATGTCACCTAAGTTTCATGCTGTGACAGATTATTTAAATCA
TGGAATGAAAAAATGTTCTCTGCTTGCTACCAAAGGACAAACTCTTGGAATGAACACTTTCTGCTTTCCTTC
CTCAAAGAATTAATAGGCAACAGTGGGAGAAAAAAGGCATAATGGCAAATCCTTCAAGCAGGGATAAAAGTC
GATCTTCAAACATTAACCTAAGCAGACCAAAATCTGATGACCGCATCTAGATTATTTTTTTATAAAATGATT
TTCATATAGCTATGTTACGCTAAGCTACTGTCCCATCTCTTGTGATGTGTAACTTTTACATGTGAATATTAAAG
TAGATTTCTCTGTCTTGTAAAAA

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FIGURE 802

MKAVSPVRPSGRKAPSGCGGGELALRCLAEHGHSLGGSAAAAAAAAAARCKAAEAAADEPALCLQCDMNDYCYSRL
RRLVPTIPPNNKKVSKVEILQHVIDYILDLQLALETHPALLRQPPPPAPPHHPAGTCPAAPRPTPLTALNTDPAGA
V NKQGDSILCR

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FIGURE 803

TAGTTCTAGATCGCGAGCGGCCGACGAGXCGGCGCTGTGCCTGCAGTGCATATGAACGACTGCTATAGCCGCCT
GCGGAGGCTGGTGCCACCATCCCGCCCAACAAGAAAGTCAGCAAAGTGGAGATCCTGCAGCACGTTATCGACTA
CATCCTGGACCTGCAGCTGGCGCTGGAGACGCACCCGGCCCTGCTGAGGCAGCCACCACCGCCCGCGCCGCCACA
CCACCCGGCCGGGACCTGTCCAGCCGCGCCGCGCGGACCCCGCTCACTGCGCTCAACACCGACCCGGCCGGCGC
GGTGAACAAGCAGGGCGACAGCATTCTGTGCCGCTGAGCCGCGCTGTCCAGGTGTGCGGTGCGCTGAGCCCGAGC
CAGGAGCACTAGAGAGGGAGGGGGAAGAGCAGAAGTTAGAGAAAAAAGCCACCGGAGAAAGGAAXAAACATCGG
CCAACCTAGAAACGTTTTCATTTCGTCAATCCAAGAGAGAGAGAGGAAAGAAAAATACAACTTTCATTCTTTCTTT
GCACGTTCAATAACATTCTACATACGTATTCTCTTTTGTCTCTTCATTATATAACTGCTGTGAATTGTACATTTCT
GTGTTTTTTGGAGGTGCAGTTAAACTTTTAAAGCTTAAAGTGTGACAGGACTGATAAATAGAAGATCAAGAGTAGAT
CCGACTTTAGAAGCCTACTTTGTGACCAAGGAGCTCAATTTTTGTTTTGAAGCTTTACTAATCTACCAGAGCATT
GTAGATATTTTTTTTTTACATCTATTGTTTAAATAGATGATTATAACGGGGCAGAGAAGTTCTTTTCTCTGCA
AGAATGTTACATATTGTATAGATAAATGAGTGACATTTCATACCATGTATATATAGAGATGTTCTATAAGTGTGA
GAAAGTATATGCTTTAATAGATACTGTAATTATAAGATATTTTTAATTAAATATTTTTTGTAATATTATGTGT
GTGTTTTTTTTTAATCTATGGGAATATTTCTTTTGGAAATCATTTTTCAGCTCAATTACAGAGCTCTTGATATC
TTGAATGTCCTTTCTGTTTGGCCTGGCTCTTAATTTGCTTTTGTGTTTGGCCAGTATAGACTCGGAAGTAACAGTT
ATAGCTAGTGGTCTTGCAATGATTGCATGAGATGTTTAAATCACAATTAACCTTGTTCTGAGTCCATTCAAATGTG
TTTTTTTTAAATGTAGATTGAAATCTTTGTATTTGAAGCATACATGTTGAAARTACACCTTATCAGTTTTTAAAGTA
CAGGGTTTTATAGTGAATATATACAGAGTAAGTGTGTTTTGTTTTGTTTTCAACTGAGGTCAAAATGGATTCTGX
AATGATTTTGCATATGGGATGAGGAAATGCTTGGATCCTTAAGGAGTTTACGAAATCTGCTGTTTTATCAAAGTG
AAAAAAATTTGCTTATTACTCTTCATTTTACACTAAAGCTTAATGTCACATAAGTTTCATGTCTGTACAGATTATT
TAAATCATGGAAATGAAAAAATGTTCTCTGCTTGCTACCAAAGGACAAACTCTTGAAATGAACACTTTCTGCT
TTCTTCTCTCCAAAGAATTAATAGGCAACAGTGGGAGAAAAAAGGCATAATGGCAAATCCTTCAAGCAGGGAT
AAAAGTCGATCTTCAAACATTAACCTTAAGCAGACCAAAATTTCTGATGACCGCATCTAGATTATTTTTTATAAA
AATGATTTTCACTATAGCTATGTTACGCTAAGCTACTGTCCAATCTCTTGTGATGTGTAACCTTTTACATGTGAAT
ATTAAAGTAGATTCTCTGCTTGTACTGTGATTTCTGGTCTCATTTCTTTAAACCTTACTCATTTTTCTTTTA
AGGCTCTTTTTTCTCCTTAAGGAAGGTAATATTTTCTAGGTTAGATAGGACTATCAGGGTTTGTGAACATTATGC
ATTTAATGTTATGGGTACTTTACACACAAGTTAGATGGAATTTTLAGAGTGAAAGAATTAAGTAGGATTTAATTG
GGTGCTTTGTAAATAGTCAACTGTGTGTATAACGTGGTCTGTTTGATTTTTTAAAGGAAAGGATTTGTTTCAGAT
TATACAAGAATAAAAGTATTATAGACCCAAGGGACTTCTTATGAGGTCAAATTCAGATATTTATATGAATATGAA
ATACCATGGTCCCTAGTAGTCAGTTGAAGTGGCAATGTCTAAACAGAAATGAACAAAATAATGCTAGCAGGTTA
AAATCAATCAAAATGTTTAAAAATTGATTCTGTCTCAGCATGTTAYTTCTCAGCTCTGATAATTTACTGGTCT
TGAGTATTTTGAGAATTTGATGTTGAACGTTATAAAGTCAAAGAAGTCTTGTTTAGATGAGGTTTATTTTTATT
TTTGATATTATTCAATCTTGTCTACACATCAAGAAGAAAACACTAGAGTGCTGCTGGAATTCCAAATCTGAAGAAT
TCTAACGACTGCATTCTTTGTATTAAAAAGGGCACAATCCTTCTTTTTTATTTGGCAGTTTAATTTTCTAGTAGGA
AGCATGTCTACATGTGCACTGTTGGTTAGAATTATGCATCTGTCTGCTGACTGCTGAACCTTACCTAAGCCTTT
TGGCGCAGTTTTAAACTTATACTGGTGGACTGTGAACCTCAAAACAAATGGGTATTTTTGGGTTTTGAGGATAGA
TGTTACTCCTTAAAGTTTGTATTTGGGGCATGAAAACTACTGAAAGAAGAAAAGTGCTACAGATACTACATTTT
AAAGAGTTGGCATTTCCTTTGGCCACTCAAGCAGCATTTGATGTATCTAAAGAAGAAAAGTCAATGTTTATTT
TTTTAAAAATTATATGCAGTTGTACAAGATACTACATTCCATTGAAATGTTGGCTATGTCCTAACCAGGCAACCA
GATAACAAAAACATTTTGGAGTCTTTTATCTAGGTAGTTCTAATTATTCAGCTACTTAGTTTAAACAAAGGAAAATA
TCCTGACTTCTCTCATTTTCATTTGTAGACTTTTTCATTGTATAGGCACAACCAAGAGTCAGACTGGTTTAAACT
CCAGAAGGAAAAAAGTATCCACACAGTGGATGTTGTTTCTAAGAATGCTACAAAATCCTGACATCTCAGACAT
CTCAATGTTAAAGGAAGAAAAAATACCTTTTCATTTCAAAGAATAATATACTTTGATATTGTGTAAACCTTA
CTCAAGTTTATTGTCAAGCTTTAACTGCCTTTTTAGAACTTTTTAAATTTTCGAGCCCACAAATCTATTGTATTA
GTTGCCTTCTATAACAATAAATCTTCACTGAGCAAAAAAAAAAAAAAAAAAAAAAAAAAXCCCXGGGGGGGGGG
CCC

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FIGURE 804

GCTCTTTCCAACGCTGTAAAAAGGACAGAGGCTGTTCCCTATGGCAGAAGGCAACCACAGAAAAAGCCACTTAA
GGTGTTGGAATCCCTGGGCAAAGATTTCTCACTGGTGTTTTGGATAACTTGGTGGAACAAAATGTACTGAACTG
GAAGGAAGAGGAAAAAAGAAATATTACGATGCTAAACTGAAGACAAAGTTCGGGTCATGGCAGACTCTATGCA
AGAGAAGCAACGTATGGCAGGACAAATGCTTCTTCAAACCTTTTTTAACATAGACCAAATATCCCCAATAAAAA
AGGTGATAAATTGGGTACAGAGGCAGAAATCACAAATTTATGTTCTGCAATATCCTGCAGCTCATCCGAATATCGG
AGGCTGGACCACCTGAGTCAGGAGAATCTACAGATGCCCTCAAGCTTTGTCCTCATGAAGAATTCCTGAGACTAT
GTAAAGAAAGAGCTGAAGAGATCTATCCAATAAAGGAGAGAAACAACCGCACACGCCTGGCTCTCATCATATGCA
ATACAGAGTTTGACCATCTGCCTCCGAGGAATGGAGCTGACTTTGACATCACAGGGATGAAGGAGCTACTTGAGG
GTCTGGACTATAGTGTAGATGTAGAAGAGAATCTGACAGCCAGGGATATGGAGTCAGCGCTGAGGGCATTGCTA
CCAGACCAGAGCACAAAGTCTCTGACAGCACATTCTTGGTACTCATGTCCTCATGGCATCCTGGAGGGAATCTGCG
GAACTGTGCATGATGAGAAAAACCAGATGTGCTGCTTTATGACACCATCTTCCAGATATTCAACAACCGCAACT
GCCTCAGTCTGAAGGACAAACCCAAGGTCAATCATTGTCCAGGCCTGCAGAGGTGCAAACCGTGGGGAACTGTGGG
TCAGAGACTCTCCAGCATCCTTGGAAGTGGCTCTTACAGTCATCTGAGAACCTGGAGGAAGATGCTGTTTACA
AGACCCACGTGGAGAAGGACTTCATTGCTTTCTGCTCTTCAACGCCACACAACGTGTCCTGGAGAGACAGCACAA
TGGGCTCTATCTTCATCACACAACCTCATCATATGCTTCCAGAAATATTCTTGGTGCTGCCACCTAGAGGAAGTAT
TTCGGAAGGTACAGCAATCATTGAACTCCAAGGGCCAAAGCTCAAATGCCACCATAGAACGACTGTCCATGA
CAAGATATTTCTACCTCTTCTGGAATTGAAAAATGGAAGCCACAAGCAGCCCAGCCCTCCTTAATCAACTTCA
AGGAGCACCTTCATTAGTACAGCTTGCATATTTAACATTTGTATTTCAATAAAAGTGAAGACAAACG

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FIGURE 805

MEAGPPESGESTDALKLCPHEEFLRLCKERAEEIYPIKERNNRTRLALIICNTEFDHLPPRNGADFDITGMKELL
EGLDYSVDVEENLTARDMESALRAFATRPEHKSSDSTFLVLMSHGILEGICGTVHDEKKPDVLLYDTIFQIFNNR
NCLSLKDKPKVIVQACRGANRGELWVRDSPASLEVASSQSSENLEEDAVYKTHVEKDFIAFCSSTPHNVSWRDS
TMGSIFITQLITCFQKYSWCCHLEEVFRKVQOSFETPRAKAQMPTIERLSMTRYFYLFPGN

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FIGURE 806

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGCGCCTCTGCGCTCCGCGCCATGGCCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGGCGAGCGCGAGCGGGCGGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTCAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAACTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAGAGACAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACTTAAGTATATATAAGCAAAACAGAAGAGTCTTGTTCCAACAG
AAACTCTGGAGCTCCGTGGGTCTTTCTCTTCTCTTGTAAAGAAGTTCCTTTTGTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTTCAGCTCTCTTATTTTTTTCCTTAAGTAGCATTATTCCT
AAGGTAGGCAGGGTATTTCTAGTAAGCATACTTTCTTAAGACGGAGGCCATTTGGTTCCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAAACGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAACATATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCGGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTCCTT
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTCGCCTGTAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTGAGGAGTTCGAGACCAGCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG
ACTGCAGTGAGCCGATATCGCACACAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAGAAAAAATA
AAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC
AGTCCAATTTCAGGTGAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAACTGGCCCAACTTCATTTCCATACTTCAGGGAAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

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FIGURE 807

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAekaADESERGMKVIENTRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEERAES
ELKCGDLEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLEEKLA
QAKEENVGLHQTLTDQTLNELNCI

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FIGURE 808

GGCACGAGGGGAAGGTGGCCGAGCGCCCGCGCTGCCCACTCGCTCGCTCGCGCACTCAGACGCGCGCCACAACAG
CGCGCCCCAAGCTGCGCAGCTCTGCAAAAGTTTCTGCTCGGGATCTGGCTCTCTTCCCCTTGGACTTTAGAACGA
TTTAGGGTTGACAGAGGAAAGCAGAGGCGCGCAGGAGGAGCAGAAAACACCACCTTCTGCAGTTGGAGGCAGGCA
GCCCCGGCTGCACTCTAGCCGCCGCGCCCGGAGCCGGGGCCGACCCGCCACTATCCGCAGCAGCCTCGGCCAGGA
GGCGACCCGGGCGCCTGGGTGTGTGGCTGCTGTTGCGGGACGTCTTCGCGGGGCGGGAGGCTCGCGCCGCAGCCA
GCGCCATGCAAAACTACAAGTACGACAAAGCGATCGTCCCGGAGAGCAAGAACGGCGGCAGCCCGGCGCTCAACA
ACAACCCGAGGAGGAGCGGCAGCAAGCGGGTGCTGCTCATCTGCCTCGACCTCTTCTGCCTCTTCATGGCGGGCC
TCCCCTTCTCATCATCGAGACAAGCACCATCAAGCCTTACCACCGAGGGTTTTACTGCAATGATGAGAGCATCA
AGTACCCACTGAAAAGTGGTGAGACAATAAATGACGCTGTGCTCTGTGCCGTGGGGATCGTCATTGCCATCCTCG
CGATCATCACGGGGGAATTCTACCGGATCTATTACCTGAAGAAGTCGCGGTGACGATTGAGAACCCCTACGTGG
CAGCACTCTATAAGCAAGTGGGCTGCTTCCTCTTTGGCTGTGCCATCAGCCAGTCTTTACAGACATTGCCAAAG
TGTCCATAGGGCGCCTGCGTCCTCACTTCTTGAGTGTCTGCAACCCTGATTTTCAGCCAGATCAACTGCTCTGAAG
GCTACATTGAGAACTACAGATGCAGAGGTGATGACAGCAAAGTCCAGGAAGCCAGGAAGTCCTTCTTCTCTGGCC
ATGCCCTCCTTCTCCATGTACACTATGCTGTATTGTTGGTGCTATACCTGCAGGCCCGCTTCACTTGGCGAGGAGCCC
GCCTGCTCCGGCCCCCTCCTGCAGTTCACCTTGATCATGATGGCCTTCTACACGGGACTGTCTCGCGTATCAGACC
ACAAGCACCATCCAGTGATGTTCTGGCAGGATTTGCTCAAGGAGCCCTGGTGGCCTGCTGCATAGTTTTCTTCG
TGTCTGACCTCTTCAAGACTAAGATGACGCTCTCCCTGCCTGCCCTGCTATCCGGAAGGAAATCCTTTCACCTG
TGGACATTATTGACAGGAACAATCACCACAACATGATGTAGGTGCCACCCACCTCCTGAGCTGTTTTTGTAAAT
GACTGCTGACAGCAAGTTCTTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGGAAAACTTTTGCCCGAC
TGATTTTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 809

MQNYKÝDKAIVPESKNGGSPALNNNPRRSGSKRVLLICLDLFCFLMAGLPFLIIETSTIKPYHRGFYCNDSEIKY
PLKTGETINDAVLCavgivIAILAIITGEFYRIYYLKKSRTIQNPYVAALYKQVGCFLFGCAISQSFTDIKVS
IGRLRPHFLSVCNPDFSQINCSEGYIQNYRCRGDDSKVQEARKSFFSGHASFSMYTMLYLVLVYLQAREFTWRGARL
LRPLLQFTLIMMAFYTGLSRVSDHKHHPSDVLAGFAQGALVACCIVFFVSDLFKTKMTLSLPAPAIRKEILSPVD
IIDRNNHHNMM

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FIGURE 810

GGCACGAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCGCCGCCATGACGCTGCGCGGCGCCGTCTTCGACCTTGACG
GGGTGCTGGCGCTGCCAGCGGTGTTGCGCGTCCCTCGGCCGCACGGAGGAGGCCCTGGCGCTGCCAGAGGACTTC
TGAATGATGCTTTCCAGAAAGGGGACCAGAGGGTGCCACTACCCGGCTTATGAAAGGAGAGATCACACTTTCCC
AGTGGATACCACTCATGGAAGAAACTGCAGGAAGTGCTCCGAGACCGCTAAAGTCTGCCTCCCCAAGAATTTCT
CCATAAAAGAAATCTTTGACAAGGCGATTTAGCCAGAAAGATCAACCGCCCCATGCTCCAGGCAGCTCTCATGC
TCAGGAAGAAAGGATTCACTACTGCCATCCTCACCAACACCTGGCTGGACGACCGTGCTGAGAGAGATGGCCTGG
CCCAGCTGATGTGTGAGCTGAAGATGCACTTTGACTTCCTGATAGAGTCGTGTCAGGTGGGAATGGTCAAACCTG
AACCTCAGATCTACAAGTTTCTGCTGGACACCCCTGAAGGCCAGCCCCAGTGAGGTCGTTTTTTTTGGATGACATCG
GGGCTAATCTGAAGCCAGCCCGTGACTTGGGAATGGTCAACATCCTGGTCCAGGACACTGACACGGCCCTGAAAG
AACTGGAGAAAGTGACCGGAATCCAGCTTCTCAATACCCCGGCCCTCTGCCGACCTCTTGCAATCCAAGTGACA
TGAGCCATGGGTACGTGACAGTAAAGCCCAGGGTCCGTCTGCATTTTGTGGAGCTGGGCTGGCCTGCTGTGTGCC
TCIGCCATGGATTTCCCGAGAGTTGGTATTCTTGAGGTACCAGATCCCTGCTCTGGCCCAGGCAGGTTACCGGG
TCCTAGCTATGGACATGAAAGGCTATGGAGAGTCACTGCTCCTCCCGAAATAGAAGAATATTGCATGGAAGTGT
TATGTAAGGAGATGGTAACCTTCTGGATAAACTGGGCCTCTCTCAAGCAGTGTTTATTGGCCATGACTGGGGTG
GCATGCTGGTGTGGTACATGGCTCTCTTCTACCCCGAGAGAGTGAGGGCGGTGGCCAGTTTGAATACTCCCTTCA
TACCAGCAAATCCCAACATGTCCCTTTGGAGAGTATCAAAGCCAACCCAGTATTTGATTACCAGCTCTACTTCC
AAGAACCAGGAGTGGCTGAGGCTGAACTGGAACAGAACCTGAGTCGGACTTTCAAAGCCTCTTCAGAGCAAGCG
ATGAGAGTGTATTTATCCATGCATAAAGTCTGTGAAGCGGGAGGACTTTTGTAAATAGCCAGAAGAGCCAGCC
TCAGCAGGATGGTCACTGAGGAGGAAATCCAGTTCTATGTGCAGCAGTTCAAGAAGTCTGGTTTCAGAGGTCCTC
TAAACTGGTACCGAAACATGGAAGGAAGTGGGCTTGCAAAAGCTTGGGACGGAAGATCCTGATTCCGG
CCCTGATGGTCACGGCGGAGAAGGACTTCGTGCTCGTTCCTCAGATGTCCAGCACATGGAGGACTGGATTCCCC
ACCTGAAAAGGGGACACATTGAGGACTGTGGGCACTGGACACAGATGGACAAGCCAACCGAGGTGAATCAGATCC
TCATTAAGTGGCTGGATTCTGATGCCCCGGAACCCACCGGTGGTCTCAAAGATGTAGAACGCAGCGTAGTGCCAC
GCTCAGCAGGTGTGCCATCCTTCCACCTGCTGGGGCACCATTCTTAGTATACAGAGGTGGCCTTACACACATCTT
GCATGGATGGCAGCATTGTTCTGAAGGGGTTGCAGAAAAAAGATTTTCTTTACATAAAGTGAATCAAATTTG
ACATTATTTTAGATCCCAGAGAAATCAGGTGTGATTAGTTCTCCAGGCATGAATGCATCGTCCCTTTATCTGTAA
GAACCTTAGTGTCTGTAGGGGGACAGAATGGGGTGGCCAGGTGGTGAATTTCTCTTTGACCAATGCATAGTTTG
GCAGAAAAATCAGCCGTTTATTTAGAAGAATCTTAGCAGAGATTGGGATGCCTTACTCAATAAAGCTAAGATGAC

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FIGURE 811

MTLRGAVFDLDGVLALPAVFGVLGRTEEALALPRGLLNDAFQKGGPEGATTRLMKGEITLSQWIPLMEENCRKCS
ETAKVCLPKNFSIKEIFDKAISARKINRPMLOAALMLRKKGFTTAILTNTWLDDRAERDGLAQLMCELKMHDFDL
IESCQVGMVKPEPQIYKFLLDTLKASPSEVVFLDDIGANLKPARDLGMVTILVQDQDTALKELEKVTGIQLLNTF
APLPTSCNPSDMSHGYVTVKPRVRLHFVELGWPAVCLCHGFPESWYSWRYQIPALAQAGYRVLAMDMKGYGESSA
PPEIEEYCMEVLCKEMVTFLDKLGLSQAVFIGHDWGGMLVWYMALFYPERVRAVASLNTPFIPANPNMSPLESIK
ANPVFDYQLYFQEPGVAAEAELEQNLSTFKSLFRASDESVLMSHKVCEAGGLFVNSPEEPSLSRMVTEEEIQFYV
QQFKKSGFRGPLNWYRNMERNNWKWACKSLGRKILIPALMVTAEKDFVLVPQMSQHMEDWIPHLKRGHIEDCGHWT
QMDKPTEVNQILIKWLSDARNPPVVSKM

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FIGURE 812

GCCCCCGGTCCACGCCGCGCACCGCTCCGAGGGCCAGCGCCACCCGCTCCGCAGCCGGCACCATGCGCGAGATC
GTGCACATCCAGGCGGGCCAGTGCGGCAACCAGATCGGCGCCAAGTTTTGGGAGGTCATCAGCGATGAGCATGGG
ATCGACCCACAGGCAGTTACCATGGAGACAGTGAATGCGAGCTGGAGAGAATCAACGTGTACTACAATGAGGCT
GCTGGTAACAAATATGTACCTCGGGCCATCCTGGTGGATCTGGAGCCTGGCACCATGGACTCTGTCTAGGTCTGGA
CCCTTCGGCCAGATCTTCAGACCAGACAACCTTCGTGTTTCGGCCAGAGTGGAGCCGGGAATAACTGGGCCAAGGGC
CACTACACAGAGGGAGCCGAGCTGGTCTGACTCGGTCTGGATGTGGTGAGGAAGGAGTCAGAGAGCTGTGACTGT
CTCCAGGGCTTCCAGCTGACCCACTCTCTGGGGGGCGGCACGGGGTCCGGGATGGGCACCCTGCTCATCAGCAAG
ATCCGGGAAGAGTACCCAGACCGCATCATGAACACCTTCAGCGTCATGCCCTCACCCAAGGTGTCAGACACGGTG
GTGGAGCCCTACAACGCCACCCTCTCGGTCCACCAGCTGGTGGAAAACACAGATGAAAACCTACTCCATTGATAAC
GAGGCCCTGTATGACATCTGCTTCCGCACCCTGAAGCTGACCACCCCACTACGGGGACCTCAACCACCTGGTG
TCGGCCACCATGAGCGGGGTACCCACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCG
GTGAACATGGTGGCCTTCCCTCGCCTGCACTTCTTCATGCCCGGCTTCGCGCCCCCTGACCAGCCGGGGCAGCCAG
CAGTACCGGGCGCTCACGGTGCCCGAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCCGCTGCGAC
CCGCGCCACGGCCGCTACCTGACGGTGGCTGCCATCTTCCGGGGCCGCATGTCCATGAAGGAGGTGGACGAGCAG
ATGCTCAACGTGCAGAACAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACAACGTGAAGACGGCCGTGTGC
GACATCCCGCCCCGCGCCTGAAGATGTCGGCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAG
CGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGAC
GAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACG
GCCGACGAACAAGGGGAGTTCGAGGAGGAGGAGGGCGAGGACGAGGCTTAAAAACTTCTCAGATCAATCGTGCAT
CCTTAGTGAACCTTCTGTTGTCTCAAGCATGGTCTTTCTACTTGTAACATATGGTGCTCAGTTTTGCCTCTGTTA
GAAATTCACACTGTTGATGTAATGATGTGGAACCTCTCTAAAAATTACAGTATTGTCTGTGAAGGTATCTATACT
AATAAAAAAGCATGTGTAG

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FIGURE 813

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSDLQLERINVYYNEAAGNKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTDETYSIDNEALYDICFRTLKLTPTYGDL
NHLVSATMSGVTTCLRFPQQLNADLRKLAVNMVFFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDSKNMM
AACDPRHGRYLTVAAlFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATADEQGEFEEEEGEDEA

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FIGURE 814

GGCAGGAGGTGATATTTGACAGGCTGCGCGCGGGCGAGCTGCCGCGGAGCACCCGGCAGGGGCTGACAGCATGGC
CTCGCCCCGACCCGCCCGCCACCAGCTACGCCCCGTCCGACGTGCCCTCGGGGGTCGCGCTGTTCTCACCATCCC
TTTCGCCTTCTTCTGCCCCGAGCTGATATTTGGGTCTTGGTCTGGACCATGGTAGCCGCCACCCACATAGTATA
CCCCTTGCTGCAAGGATGGGTGATGTATGTCTCGCTCACCTCGTTTCTCATCTCCTTGATGTTCTGTTGTCTTA
CTTGTTTGGATTTTACAAAAGATTTGAATCCTGGAGAGTTCTGGACAGCCTGTACCACGGGACCACTGGCATCCT
GTACATGAGCGCTGCCGTCCTACAAGTACATGCCACGATTGTTTCTGAGAACTGCTGGACCCAAGAATTTACTA
CATTAAATTCGGCAGCCTCGTTCTTCGCCTTCATCGCCACGCTGCTCTACATTCTCCATGCCTTCAGCATCTATTA
CCACTGATGCACAGGCGCCAGGCCAAGGGGAAATGCTCTTTGAAAGCTCCAATTATTGGTCCCCAAAAGCAGCT
TCCAACGTTTTGCCATCTGGATGACAAACGGAAGATCCACTAAAACGTCCACGGGATTAACAGAACGTCCTTGCA
ACTGAGCGATGACACCACACTTTGTTTGGACATTTAAATTCACCTCTGCTGAATAGGAGGAAGCTTTTCTTTTCC
TGGGAAAACAACCTGTCTCTTGGAAATTATCTGACCATGAACCTGCTCTTCTAGACAACCTCACATCAAAGCCCTCAC
TCCACTAATGGAGAATCCTAGCCCCACTAATGCCAAGTCTGTTTGGGGATTTTGCCTCAGCTATGGGCTTCCCTA
GAGTAGGTCTAGGGGAATACTCAGTCTGATCTTTTTTTTGTGTTTATTTTGTGTTTTTTTGTAGACGGAGTCTC
GCTCTTCTCCAAGGCTGGAGTGCAGTGACGCGATCTCCACTCACTGCAGGCTCCGCCTCCCGGGTTCCCGCCAT
TCTCCTGCCTCAGCCTCCCGAGTAGCCGGGACTACAGGCGCCACCACCATGCCCGGCTAATTTAGTTGTATTTT
TAGTAGAGATGGGGTTTACCGTATTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCCGCTCGGCC
TCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCCGGCCTGATTCTCTTAAATGAAGAGGTGCTGCCA
AGGCCTTCAGATCTAACGCAGATGCATAGACCTTGTTCTTGGTACTTGTTTCAAGCTGTGCTGGGGAGCCGTGGTC
CCGAGTTCCCTGGGAGGCTGACAGGGTCAAGCCACCCTGCCACCACCCTCCCACTTCCCCTCCCCTTTCTCTC
CAGCATTAGGATTCAAGGAAATCTGCATGAAGCCAATTTGAGGGTAGACGTGTGGGGAAAATAAATCATTATA
CAGTAAGACCTGGGGCTTGAGGGGTGGGGAATGGGGAGGGAAGGGCATAGCCTGCTCCTCCATGAGTCTGACATC
TCGGAAACTGAGCAGCTGCCGGACGCTGGGTGAGGAATCCAAGACCCACCTCTTAAGGACTGGTTTCTCAGAA
AGCACCCCTCAGGGAAAAAGGTGAAAACATTACATCCGTGGATTCTCCTGCCACAACCGCATTGGAAGAAAAGGCT
GCCGCAACATCTCAGCGAGGAGTGAAGGACCCATGTCCCAGGAACCGCGCTGCGCCACCTGCACTACCCCCCTC
ACATTCTCTTAAGCACCCGGTGGCCCTCCGAGGCCTGGCGGAATGGTGGTGGCCACGGGGTTGGGCAAGGGCTCA
CCAGGACCTCAACGGGCAAAGTTGTGCACACTAAAATATCAAATCAAGGTGCTTGGTTTTAAAGTAAATGTTTTT
CTAAAGAAAGCTGTGTTCTTCTGTTGACCCAGACGAATAGGGCACAGCCCTGTAAGTGCACGTGCCTTCTGTCA
TGGGAATGAAATAAATTATTACGAGAAAGGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 815

MASPDPPATSYAPSDVPSGVALFLTIPFAFFLPELIFGFLVWTMVAATHIVYPLLQGWVMYVSLTSFLISLMFLL
SYLFGFYKRFESWRVLDLSLYHGTTGILYMSAAVLQVHATIVSEKLLDPRIYYINSAASFFAFIATLLYILHAFSI
YYH

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FIGURE 816

AGTGGAGTGGGACAGGTATATAAAGGAAGTACAGGGCCTGGGGAAGAGGCCCTGTCTAGGTAGCTGGCACCAGGA
GCCGTGGGCAAGGGAAGAGGCCACACCCTGCCCTGCTCTGCTGCAGCCAGAATGGGTGTGAAGGCGTCTCAAACA
GGCTTTGTGGTCCTGGTGTCTGCCAGTGTCTGCTCTGCATACAACTGGTCTGCTACTACACCAGCTGGTCCCAG
TACCGGGAAGGCGATGGGAGCTGCTTCCCAGATGCCCTTGACCGCTTCCTCTGTACCCACATCATCTACAGCTTT
GCCAATATAAGCAACGATCACATCGACACCTGGGAGTGGAAATGATGTGACGCTCTACGGCATGCTCAACACACTC
AAGAACAGGAACCCCAACCTGAAGACTCTCTTGTCTGTGCGAGGATGGAACCTTGGGTCTCAAAGATTTTCCAAG
ATAGCCTCCAACACCCAGAGTCGCCGGACTTTCATCAAGTCAGTACCGCCATTTCCTGCGCACCCATGGCTTTGAT
GGGCTGGACCTTGCTGGCTCTACCTTGACGGAGAGACAAACAGCATTTTACCACCCTAATCAAGGAAATGAAG
GCCGAATTTATAAAGGAAGCCAGCCAGGGAAGGAGCAGCTCCTGCTCAGCGCAGCACTGTCTGCGGGGAAGGTC
ACCATTGACAGCAGCTATGACATTGCCAAGATATCCCAACACCTGGATTTTATTAGCATCATGACCTACGATTTT
CATGGAGCCTGGCGTGGGACCACAGGCCATCACAGTCCCCTGTTCCGAGGTCAGGAGGATGCAAGTCCTGACAGA
TTCAGCAACACTGACTATGCTGTGGGGTACATGTTGAGGCTGGGGGCTCCTGCCAGTAAGCTGGTGATGGGCATC
CCCACCTTCGGGAGGAGCTTCACTCTGGCTTCTTCTGAGACTGGTGTTGGAGCCCCAATCTCAGGACCGGGAATT
CCAGGCCGGTTTACCAAGGAGGCAGGGACCCTTGCTTACTATGAGATCTGTGACTTCTCCGCGGAGCCACAGTC
CATAGAACCCTCGGCCAGCAGGTCCCCATGCCACCAAGGGCAACCAGTGGGTAGGATACGACGACCAGGAAAGC
GTCAAAGCAAGGTGCAGTACCTGAAGGATAGGCAGCTGGCAGGCGCCATGGTATGGGCCCTGGACCTGGATGAC
TTCCAGGGCTCCTTCTGCGGCCAGGATCTGCGCTTCCCTCTACCAATGCCATCAAGGATGCACTCGCTGCAACG
TAGCCCTCTGTTCTGCACACAGCACGGGGGCCAAGGATGCCCCGTCCCCCTCTGGCTCCAGCTGGCCGGGAGCCT
GATCACCTGCCCTGCTGAGTCCCAGGCTGAGCCTCAGTCTCCCTCCCTTGGGGCCTATGCAGAGGTCCACAACAC
ACAGATTTGAGCTCAGCCCTGGTGGGCAGAGAGGTAGGGATGGGGCTGTGGGGATAGTGAGGCATCGCAATGTAA
GACTCGGGATTAGTACACACTTGTTGATGATTAATGGAAATGTTTACAGATCCCCAAGCCTGGCAAGGGAATTC
TTCAACTCCCTGCCCCCTAGCCCTCCTTATCAAAGGACACCATTTTGGCAAGCTCTATCACCAAGGAGCCAAACA
TCCTACAAGACACAGTGACCATACTAATTATACCCCTGCAAAGCCAGCTTGAAACCTTCACTTAGGAACGTAAT
CGTGTCCCCTATCCTACTTCCCCTTCCTAATTCACAGCTGCTCAATAAAGTACAAGAGTTTAAACAGTGTGTTGG
CGCTTTGCTTTGGTCTATCTTTGAGCGCCCACTAGACCCACTGGACTCACCTCCCCCATCTCTTCTGGGTTCCCTT
CCTCTGAGCCTTGGGACCCCTGAGCTTGACAGAGATGAAGGCCGCCATGTT

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FIGURE 817

MGVKASQTGFVVLVLLQCCSAYKLVCYYTSWSQYREGDGSCFPDALDRFLCTHIIYSFANISNDHIDTWEWNDVT
LYGMLNTLKNRNP NLKTLLSVGGWNFGSQRF SKIASNTQSRRTFIKSVPPFLRTHGFDGLDLAWLYPGRRDKQHF
TTLIKEMKAEFIKEAQP GKKQLLLSAALSAGKVTIDSSYDIAKISQHLDFISIMTYDFHGAWRGTTGHHSP LFRG
QEDASPD RFSNTDYAVGYMLRLGAPASKLVMGIPTFGRSFTLASSETGVGAPISGPGIPGRFTKEAGTLAYYEIC
DFLRGATVHRTL GQQVPYATKGNQWVG YDDQESVKSKVQYLKDRQLAGAMVWALDLDDFQGSFCGQDLRFPLTNA
IKDALAAT

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FIGURE 818

CAACCTGCATAGTAACGAAACCAAACGGCTGGTGTGATTGACCGATGGGAGCTTCTCCAGGCCCAGGCATTGAGC
AAGGAGTTGAGGATGAAGCAGAACCTCCAGAAGTGGCAGCAGTTTAACTCAGACTTGAACAGCATCTGGGCCTGG
CTGGGGGACACGGAGGAGGAGTTGGAACAGCTCCAGCGTCTGGAACTCAGCACTGACATCCAGACCATCGAGCTC
CAGATCAAAAAGCTCAAGGAGCTCCAGAAAAGCTGTGGACCACCGCAAAGCCATCATCCTCTCCATCAATCTCTGC
AGCCCTGAGTTCACCCAGGCTGACAGCAAGGAGAGCCGGGACCTGCAGGATCGCTTGTGCGAGATGAATGGGCGC
TGGGACCGAGTGTGCTCTCTGCTGGAGGAGTGGCGGGGCTGCTGCAGGATGCCCTGATGCAGTGCCAGGGTTTC
CATGAAATGAGCCATGGTTTGCTTCTTATGCTGGAGAACATTGACAGAAGGAAAAATGAAATTGTCCCTATTGAT
TCTAACCTTGATGCAGAGATACTTCAGGACCATCACAAACAGCTTATGCAAATAAAGCATGAGCTGTTGGAATCC
CAACTCAGAGTAGCCTCTTTGCAAGACATGTCTTGCCAACTACTGGTGAATGCTGAAGGAACAGACTGTTTAGAA
GCCAAAGAAAAAGTCCATGTTATTGGAATCGGCTCAAACCTTCTCTTGAAGGAGGTGAGTCGTCATATCAAGGAA
CTGGAGAAGTTATTAGACGTGTCAAGTAGTCAGCAGGATTTGTCTTCCCTGGTCTTCTGCTGATGAACTGGACACC
TCAGGGTCTGTGAGTCCACATCAGGAAGGAGCACCCCAAACAGACAGAAAACGCCACGAGGCAAGTGTAGTCTC
TCACAGCCTGGACCCTCTGTGTCAGCAGTCCACATAGCAGGTCCACAAAAGGTGGCTCCGATTCCCTCCCTTTCTGAG
CCAGGGCCAGGTTCGGTCCGGCCGCGGCTTCCTGTTTCAGAGTCCTCCGAGCAGCTCTTCCCCTTCAGCTTCTCCTG
CTCCTCCTCATCGGGCTTGCCCTGCCTTGTACCAATGTCAGAGGAAGACTACAGCTGTGCCCTCTCCAACAACCTT
GCCCCGTTCATCCACCCCATGCTCAGATACACGAATGGCCCTCCTCCACTCTGAACTAAGCAGATGCCATCTGCAG
AAGTGTCTGGTAGCATAAGGAGGATCGGGTCATAAGCAATCCCAAACCTACCAACAAGAGGACCTTGATCTTGGCGA
AAGCCATCGGTGTGGCAGCTTTAGCCCTCCTCCAGATCACATGTGTGCAAATTATGGCTTCAGAGGGTGGAAGAT
AAACAGTGACGGGGGAACAAACAGACAACAAGAAGGTTTGGGAAGAAATCTGGTTTGAGACTCTGAACCTTAGCAC
TAAGGAGATTGAGTAAGGACCTCCAAAGTCCCCGGACTCATGAATTCTGGGCCCTTGGCATTTCGTGTGCACAGC
CAAGGACTTCAGTAGACCATCTGGGCAGCTTTCCCATGGTGTGCTCCAACCATCAGATAAATGACCCTCCCCAA
GCACCATGTGAGTGTGTAACAATCTACCAACCAACCAGTGTGTAAGAGATTTTAGAACCTTGTAACATACAATTT
TTAAGAGCTTATATGGCAGCTTCCTTTTACCTTGTTTTCTTTGGGGCATGATGTTTTAACCTTTTGCTTTAGA
AGCACAAGCTGTAAATCTAAAAGGCACTTTTTTTTAGAGGTATAAGAAAACTAGATGTAATAAATAAGATCATG
GAAGGCTTTATGTGAAAAAAGTTGAATGTTATAGTAAAAA

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FIGURE 819

MKQNLQKWQQFN¹NSDLNSIWAWLGDTEEELEQLQRLELSTDIQTIELQIKKLKELQKAVDHRKAIILSINLCSPEF
TQADSKESRD²LQDRLSQMNGRWDRVCSLLEEW³RGLLDALMQCGFHEMSHG⁴LLMLLENIDRRKNEIVPIDS⁵NLD
AEILQDHHKQLMQIKHELLESQ⁶LRVASLQDMSCQLLVNAEGTDCLEAKEKVHVIGNRLK⁷LLLKEVSRHIKELEKL
LDVSSSQ⁸QDLSSWSSADELDTSGSVSPTSGRSTPNRQKTPRGKCSLSQPGPSVSSPHSRSTKGGSDSSLSEPGPG
RSGRGFLFRVLR⁹AALPLQLLLLLLLIGLACLVPMSEEDYSCALSNNFARSSTPCSDTRMALLHSEL¹⁰SRCHLQKCW

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FIGURE 820

GT TTTGAAAGTTGATGGAGCGAACTGCTTTTCCAAAGACTCTTTTGAAAACTTTTTAAGTAGGCCATTCTGACT
TTAACATTTCTCTTTGTCTTAACATTAGACAAAAAGTAACCTTCCTGAAGAGGACATGTGATTGGAAGTTGTCAA
TTGTTGAAGCATTGGTAACTCCAGTCTCTAACGTTTTAGAAAATCATAACAAGCGGTTCTCTACCCTGTAAAGGT
GAACTACTGAGTTCCTTCATTATGCTCTGATGGAGATTATGATTACCTCATCAAGTTTTTAGCTTTGGGAGACTCTG
GTGTAGGGAAGACCAGTGTACTTTACCAATATACAGATGGTAAATTTAACTCCAAATTTATCACAACAGTGGGCA
TTGATTTTCAGGGAAAAAAGAGTGGTGTACAGAGCCAGTGGGCCGGATGGAGCCACTGGCAGAGGCCAGAGAATCC
ACCTGCAGTTATGGGACACAGCAGGGCAGGAGAGGTTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGG
GTTTTCTTCTACTTTTTTGATCTGACAAATGAGCAAAGTTTTCTCAATGTCAGAACTGGATAAGCCAGCTACAGA
TGCAATGCATATTGTGAAAACCCAGATATAGTGCTGTGTGGAAACAAGAGTGATCTGGAGGACCAGAGAGTAGTGA
AAGAGGAGGAAGCCATAGCACTCGCAGAGAAATATGGAATCCCTACTTTGAACTAGTGCTGCCAATGGGACAA
ACATAAGCCAAGCAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACGGTGTGTGGACAAGTCTGGA
TTCCTGAAGGAGTGGTGGCATCAAATGGTCATGCCTCTACGGATCAGTTAAGTGAAGAAAAGGAGAAAAGGGCAT
GTGGCTGTGAGAGAAGTCAAGTAAGTGACATAGTAGTTTCAGGTGGCCCATGCCTGGGATCTTCTCTATGATTGATA
CATGGCACAGTGAGAGATTAATGGGCATTGTGTACAAATTGCTTCTCACCATCCCCATTAGACCTACGAATAAAG
CATCCGGTTCTAAAATTAATTTGTTGCAGCTTTGTAAATATTTCTTTAAGATTACGCCTGAGAGTTAGGAGAAAT
ATTTACAGAGCCAAAAGTGCCTTATACAACCTTAGCCTATTATAGTAAATCATTCAAGGATTACGAATTTTGCAGT
CACAGAAGAGTGTATTTATTATGTAGAATGAATGAGGGTACTGTCACCTGCCTTAATGTAGGTAGGCCCAGAGTC
TTACATTTAAGATCTTACATGCAGTTATAAAACCGCCACAGTCTTCAATCCAGATTTGAAGACTCATGCCATAGG
TGACATTCTAAAATACCATTAAAGCCACTTAAATGTTAAATAAGAATATACATGCACATCAGCTCAATGTCTTTG
AGTATTAATTTTATGTAAGCATTCTATTTAACATGAATATAGGACAAATCATGGCTATATCTATAGACCTTGGAT
AAACTGGATTGACCAATTATACACTCACGGTGACTTTTTTATTGGTGGGAAGGGGATTGGGGTGGGGCAGGCTGG
CTTAATGTAATATGAGCAACCAAAGTGGGACTTCTGTCTCCCCGCTATATTCCCATTGCTCTGAATGGTTGATTG
AAGGGTCAGGGAAGTAGATTTTATGGCTTTAGTTCACCTGTGATTGTACATTTTACTTTGGCCTATGTGCTGGCCG
CACCTGAACATAGCTGGTGCTTATGCCGAGTTATTTGTGATGAGTAAATATTTAGTTTTCTTTTTCTTCATATTTA
TAATGTTGATCTGGCATCCTCAGGCTGCAGCTTTATTAGCTTATAAATTACTCATCTCTGTCTTTACCAGCAGGC
TCTGTATTGTTGATATTTGCAACTTGTTTTGCTTTTCCATTGGTGGAATTGAAATAATTAGTTTTTAATTACATA
AGATGCCTGTTTGCTATTTGGTGGAAGATAGATGTTTCATATTGAAGCAGTCACATTTGTACTGTAGTTCAATAAA
AGAAAAATGAAGTATTCTGTAGCCTATATTTTTTCATAGAGCTCATGAGCATTTACTGTACTTGCTGGGTCTTGCC
AAGATCATTTATTCCGCTGCATTGCCAAAGTGCTTCATACCAAATTAAGGTGGTTTTAATATATGTTTCATGG
AAGTTGTTTATAAAATTCAAAGGTATTTTCATTTAGGTGAAAAGTCTTATTTATTAAAGTGGTTTTGAATAAAGTAG
ATCAAAACTTCCAGAGATCTTAATGGCTATATAGGAAGAAATATCACTCACCATAATTTAAATAAAGAATAAAAA
TACATGTATTTTATGGTGGCAAAATGTTTGGTAGAACTGTAATTAGAAAAATACAAGTATATTTGCGTGATGGTTA
CACTAGAAGCCCAGACTTTACGACTACACAATATATTCATGTATCTAACTGTACTTGTACCCCCCTAAATTTATT
TTTAAAAA

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FIGURE 821

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFREKRVVYRASGPDGATGRGQRIHLQLWDT
AGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRVVKEEEAIA
LAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRNNGHASTDQLSEEKEKGACGC

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FIGURE 822

ATCGATGCCCGCCCCCGCCCCACAGCCAACCTCCCGGGCACCGTTGCCCGCCCCGGGGCCCGCTACCGGCCCAGG
CCCCGCTCGCGAGTCCTCCTCCCCGGGTGCCTGCCCGCAGCCCGCTCGGCCCAGAGGGTGGGCGCGGGGCTGCC
TCTACCGGCTGGCGGCTGTAACCTCAGCGACCTTGGCCCGAAGGCTCTAGCAAGGACCCACCGACCCAGCCGCGG
CGGCGGCGGGCGGACTTTGCCCGGTGTGTGGGGCGGAGCGGACTGCGTGTCCGCGGACGGGCAGCGAAGATGTT
AGCCTTCGCTGCCAGGACCGTGGTGAAGCCTCTGGGCTTCCTGAAGCCCTTCTCCTTGATGAAGGCTTCCAGCCG
CTTCAAGGCACACCAGGATGCACTGCCACGGCTGCCCGTGGCCCTCTCCAGCAGTCCCTGGACCACTACCTGAA
GGCGCTGCAGCCCATCGTGAGTGAGGAGGAGTGGGCCCCACACCAAGCAGCTGGTGGATGAGTTTCAGGCCTCAGG
AGGTGTAGGGGAGCGCCTGCAGAAGGGGCTGGAGCGTCGGGCCAGGAAGACGGAGAAGTGGCTGTCTGAGTGGTG
GCTCAAGACCGCTACCTCCAGTACCGCCAGCCTGTGGTCACTACTCGAGCCCAGGCGTGATGCTACCCAAGCA
GGACTTCGTGGACCTGCAGGGTCAGCTCCGATTGCTGCCAACTCATTGAGGGTGTGTTGGATTTCAGGTCAT
GATTGACAACGAGACCTGCCCGTGGAGTACCTGGGGGGGAAGCCACTGTGCATGAACCAGTACTATCAGATCTT
GTCTCCTGCCGAGTGCCGGGCCCCAAGCAGGACACAGTCAGCAACTTCAGCAAGACCAAGAAGCCTCCACGCA
CATCACCGTGGTACACAACCTACCAGTTTTTTGAGCTGGATGTGTACCACAGTGACGGGACACCCCTCACTGCGGA
TCAGATCTTTGTGAGCTGGAGAAGATCTGGAATCATCCCTACAGACCAACAAGGAGCCTGTGGGCATCCTCAC
CTCCAACCACCGCAACTCCTGGGCCAAGGCATACAACCCCTCATCAAAGACAAGGTGAACCGGGATTCCGTGCG
CTCCATCCAGAAGAGCATCTTACCGTGTGCCTAGATGCAACCATGCCAGGGTCTCAGAAGACGTGTACCGCAG
CCACGTGGCAGGCCAGATGCTGCATGGGGGCGGCAGCAGGCTCAACAGCGGCAACCGCTGGTTCGACAAGACGCT
GCAGTTATCGTGGCAGAAGATGGCTCCTGTGGGCTTGTTGACGAGCATGCTGCAGCGGAGGGGGCCCCCTATTGT
CACCTTCTGGACTATGTATCGAGTACACGAAGAAACCCGAGCTTGTTGCGGTCTCCCATGGTGCCCTGCCCAT
GCCCCAAGAAGCTGCGGTTCAACATCACCCCCGAGATCAAGAGCGACATCGAGAAGGCCAAGCAGAACCTCAGCAT
CATGATCCAGGACCTGGATATCACCGTGTATGGTGTTCACCATTTTGGAAAAGACTTCCCCAAGTCGGAGAAGCT
AAGCCCAGATGCCTTCATCCAGATGGCTTTGCAGCTGGCCTACTACAGGATCTACGGACAGGCATGTGCCACCTA
TGAAAGTGCCTCCCTGCGCATGTTTCACTGGGCGCACCAGACCATCCGCTCGGCTTCCATGGACTCACTCAC
CTTTGTCAAGGCCATGGATGACTCCAGCGTCACGGAGCACCAGAAGGTGGAGCTGCTGCGGAAGGCCGTGCAGGC
CCACCGAGGCTACACCGACCGGGCCATCCGCGGGGAGGCCTTTGATCGACACCTGCTGGGCCTGAAGCTGCAGGC
CATCGAGGACCTGGTGAGCATGCCCGACATCTTCATGGACACCTCCTACGCCATCGCCATGCACTTCCACCTCTC
CACCAGCCAGGTCCCTGCCAAGACAGACTGTGTATGTTCTTCGGGCCCCGTGGTCCCCGACGGCTACGGTGTCTG
CTATAACCCCATGGAGGCCCCACATCAACTTCTCCCTGTGCGCCTACAACAGCTGCGCGGAGACCAACGCCGCCCCG
CCTGGCGCATTAACCTGGAGAAGGCGCTCCTGGACATGCGTGCCCTGCTGCAGAGCCACCCCCGGGCCAAGCTCTG
AGCCCCCTAGGACTCAGGCCTGCCAATGCCACAGCCAAGCCCACCCTGGGATGGGGCACCCACAGGGCTCAGCTC
CTTGGTTCCCTCTTCCCTTGGTTCCCTCTTCCCTGGTCCCCCAAATCTACTGAGCCACGGACCGCATCCTCCAGG
GGGCTGCAGGCCCCAGCCAAGTGCCCTTCCGTGGGTCTATCCAGCACCTGCCAGGGCCCCGACCTGGGGCTGAGTG
CAGAGGCTGAGCAGGACGTTAGGCCCCGGGCCCCCTGGCACGTCTCCACCGGTGCCTCCTCTGGGGGAAGGGAACCA
GCCCTCCAGAGCAGGAGACTGGCAAGAGCTCTTTGTCTCACCAGCTCAGCCCCGGCCACTCCCTGCCAACTCCAT
GACCAGGCCACCATCTGTACCTTGCTTCCCAAACCTCCAGGACCTGGAGACAGGATTGTCTGGGGCCGAGGGGCC
AGGGTGTGAGGTTTACCTCCGTTGCGGCTGTGCTCCTGTGGATAACATTGCTAGCGAGCCGCTCTGGTTCCAC
TCAGCTTGGTTCTGCCCCCGCCCTGCTGTATGATATTAATGTGGAAGGTCAATAAAGGGGAATTGTGTTGG
TGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 823

MLAFAARTVVKPLGFLKPFSLMKASSRFKAHQDALPRLPVPPLOQSLDHYLKALQPIVSEEWAHTKQLVDEFQA
SGGVGERLQKGLERRARKTENWLSEWWLKTAYLQYRQPVVIYSSPGVMLPKQDFVDLQGQLRFAAKLIEGVLDLK
VMIDNETLPVEYLGGKPLCMNQYYQILSSCRVPGPKQDTSNFSKTKKPPTHITVVHNYQFFELDVYHSDGTPLT
ADQIFVQLEKIWNSSLQTNKEPVGILTSNHRNSWAKAYNTLIKDKVNRDSVRSIQKKPELVRSPMVPLPMPKKLR
FNITPEIKSDIEKAKQNLSIMIQLDITVMVFHHFGKDFPKSEKLSPDAFIQMALQLAYYRIYQQACATYESASL
RMFHLGRDITIRSASMDSLTFVKAMDDSSVTEHQKVELLRKAVQAHRGYTDRAIRGEAFDRHLLGLKLQAIEDLV
SMPDIFMDTSYAIAMHFHLSTSQVPAKTDCVMFFGPVVPDGYGVCYNPMEAHINFSLSAYNSCAETNAARLAHYL
EKALLDMRALLQSHPRAKL

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FIGURE 824

TAATCCTTTAACCTTTTCCTTGTGTCAGGAATGAGGCAGATGAGCTCCGTAAAGCTCTGGACAACCTTGCAAGACAA
ATGATCATGAAAGACAAAACTGGCACGATAAAGGCCAGCAGTACAGAACTGGTTTCTGAAAGAGTTTCCTCGG
TTGAAAAGTAAGCTTGAGGATAACATAAGAAGGCTCCGTGCCCTTGACAGATGGGGTTCAGAAGGTCCACAAAGGC
ACCACCATCGCCAATGTGGTGTCTGGCTCTCTCAGCATTTCCTCTGGCATCCTGACCCTCGTCGGCATGGGTCTG
GCACCCTTCACAGAGGGAGGCAGCCTTGTACTCTTGAACCTGGGATGGAGTTGGGAATCACAGCCGCTTTGACC
GGGATTACCAGCAGTACCATAGACTACGGAAAGAAGTGGTGGACACAAGCCCCAAGCCCACGACCTGGTCATCAAA
AGCCTTGACAAATTGAAGGAGGTGAAGGAGTTTTTGGGTGAGAACATATCCAACCTTTCTTTTCCTTAGCTGGCAAT
ACTTACCAACTCACACGAGGCATTGGGAAGGACATCCGTGCCCTCAGACGAGCCAGAGCCAATCTTCAGTCAGTA
CCGCATGCCTCAGCCTCACGCCCCCGGGTCACTGAGCCAATCTCAGCTGAAAGCGGTGAACAGGTGGAGAGGGTT
AATGAACCCAGCATCCTGGAAATGAGCAGAGGAGTCAAGCTCACGGATGTGGCCCCGTGAAGCTTCTTTCTTGTG
CTGGATGTAGTCTACCTCGTGTACGAATCAAAGCACTTACATGAGGGGGCAAAGTCAGAGACAGCTGAGGAGCTG
AAGAAGGTGGCTCAGGAGCTGGAGGAGAAGCTAAACATTCTCAACAATAATTATAAGATTCTGCAGGCGGACCAA
GAACTGTGACCACAGGGCAGGGCAGCCACCAGGAGAGATATGCCTGGCAGGGGCCAGGACAAAATGCAAACTTTT
TTTTTTTTCTGAGACAGAGTCTTGCTCTGTGCGCAAGTTGGAGTGCAATGGTGCATCTCAGCTCACTGCAAGCT
CTGCCTCCCGTGTTCAGCGATTCTCCTGCCTTGGCCTCCCAAGTAGCTGGGACTACAGGCGCCTACCACCATGC
CCAGCTAATTTTTGTATTTTAATAGAGATGGGGTTTACCATGTTGGCCAGGATGGTCTCGATCTCCTGACCTC
TTGATCTGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCGCTTTTGACCCAAATGCAAAC
ATTTTATTAGGGGGATAAAGAGGGTGAGGTAAAGTTTATGGAAGTGAAGTGTAGGGACTTTGGCATTTCATAGC
TGAGCACAGCAGGGGAGGGGTTAATGCAGATGGCAGTGCAGCAAGGAGAAGGCAGGAACATTGGAGCCTGCAATA
AGGGAAAAATGGGAAGTGGAGAGTGTGGGGAATGGGAAGAAGCAGTTTACTTTAGACTAAAGAATATATTGGGGG
GCCGGGTGTAGTGGCTCATGCCTGTAATCCGAGCACTTTGGGAGGCCAAGGCGGGCGGATCACGAGGTCAGGAGA
TCAAGACCATCCTGGCTAACACAGTGAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCATGGTGCAG
GCGCTGTAGTTCCAGCTAACTGGGCGGCTGAGGCAGGAGAATGGCGTGAACTGGGAGGTGGAGCTTGCAGTGA
GCCGAGATATCGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAAGAAT
ATATTGACGGAAGAATAGAGAGGAGGCTTGAAGGAACCAGCAATGAGAAGGCCAGGAAAAAGAAAGAGCTGAAAT
GGAGAAAGCCCAAGAGTTAGAACAGTTGGATACAGGAGAAGAAACAGCGGCTCCACTACAGACCCAGCCCCAGGT
TCAATGTCTCTCCGAAGAATGAAGTCTTTCCCTGGTGATGGTCCCCTGCCCTGTCTTTCCAGCATCCACTCTCCCT
TGTCTCTCTGGGGGCATATCTCAGTCAGGCAGCGGCTTCTGTATGATGGTTCGTTGGGGTGGTTGTCATGTGATGG
GTCCCTCCAGGTTACTAAAGGGTGCATGTCCCCTGCTTGAACACTGAAGGGCAGGTGGTGGGCCATGGCCATGGT
CCCCAGCTGAGGAGCAGGTGTCCCTGAGAACCCAACTTCCCAGAGAGTATGTGAGAACCAACCAATGAAAACAG
TCCCATCGCTCTTACCCGGTAAGTAAACAGTCAGAAAATTAGCATGAAAGCAGTTTAGCATTTGGGAGGAAGCTCA
GATCTCTAGAGCTGTCTTGTGCGCGCCAGGATTGACCTGTGTGTAAGTCCCAATAAACTCACCTACTCA

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FIGURE 825

TCCCAGCCTTCCCATCCCCCACCAGAAAGCAAATCATTCAACGACCCCCGACCCTCCGACGGCAGGAGCCCCCG
ACCTCCCAGGCGGACCGCCCTTCCCTCCCCGCGCGGGTTCCGGGCCCCGCGAGAGGGCGCGACGACAGCCGAGGC
CATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCACCACCCCGCCGTGCTCAACGGGCAGCACCCGGA
CACGCACCACCCGGGCCTCAGCCACTCCTACATGGACGCGGCGCAGTACCCGCTGCCGGAGGAGGTGGATGTGCT
TTTTAACATCGACGGTCAAGGCAACCACGTCCCGCCCTACTACGGAAACTCGGTGAGGGCCACGGTGCAGAGGTA
CCCTCCGACCCACCACGGGAGCCAGGTGTGCCGCCCGCCTCTGCTTCATGGATCCCTACCCTGGCTGGACGGCGG
CAAAGCCCTGGGCAGCCACCACACCGCCTCCCCCTGGAATCTCAGCCCCCTTCTCCAAGACGTCCATCCACCACGG
CTCCCCGGGGCCCCCTCTCCGTCTACCCCCCGGCCTCGTCTCTCTCTTGTGCGGGGGGCCACGCCAGCCCGCACCT
CTTACCTTCCCGCCACCCCGCCGAAGGACGTCTCCCGGACCCATCGCTGTCCACCCAGGCTCGGCCGGGCTC
GGCCCGGCAGGACGAGAAAGAGTGCCTCAAGTACCAGGTGCCCTGCCGACAGCATGAAGCTGGAGTCGTCCCA
CTCCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTCGACCCACCACCCCATCACCACCTACCCGCCCTA
CGTGCCCGAGTACAGCTCCGGACTCTTCCCCCCCAGCAGCCTGCTGGGCGGCTCCCCCACC GGCTTCGGATGCAA
GTCCAGGCCCCAAGGCCCGGTCCAGCACAGGCAGGGAGTGTGTGAAGTGTGGGGCAACCTCGACCCCACTGTGGCG
GCGAGATGGCACGGGACACTACCTGTGCAACGCCTGCGGGCTCTATCAGAAAATGAACGGACAGAACCGGCCCT
CATTAGCCCAAGCGAAGGCTGTCTGCAGCCAGGAGAGCAGGGACGTCTGTGCGAACTGTCAGACCACCACAAC
CACACTCTGGAGGAGGAATGCCAATGGGGACCTGTCTGCAATGCCTGTGGGCTCTACTACAAGCTTCACAATAT
TAACAGACCCCTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAATCCAAAAAGT
CAAAAAAGTGCATGACTCACTGGAGGACTTCCCAAGAACAGCTCGTTTAACCCGGCCGCCCTCTCCAGACACAT
GTCCCTCCCTGAGCCACATCTCGCCCTTCAGCCACTCCAGCCACATGCTGACCACGCCACGCCGATGCACCCGCC
ATCCAGCCTGTCTTTGGACCACACCACCCCTCCAGCATGGTCACCGCCATGGGTTAGAGCCCTGCTCGATGCTC
ACAGGGCCCCCAGCGAGAGTCCCTGCAGTCCCTTTCGACTTGCAATTTTGCAGGAGCAGTATCATGAAGCCTAAA
CGCGATGGATATATGTTTTTGAAGGCAGAAAGCAAATATGTTTGCCACTTTGCAAAGGAGCTCACTGTGGTGT
CTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATAAGCCATTCTGACTCATATCCCTATTTAACAGGGT
CTCTAGTGCTGTGAAAAAAAAAAATCCTGAACATTGCATATAACTTATATTGTAAGAAATACTGTACAATGACTT
TATTGCATCTGGGTAGCTGTAAGGCATGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTGGAAT
TAAGAAGAACTAGGTCTGATATTCAAATGGACAACTGCCAGTTTTGTTTCCTTTCACTGGCCACAGTTGTTTG
ATGCATTAAAGAAAATAAAAAAAAAAGAAAAAGAGAAAAGAAAAAAAGAAAAAGTTGTAGGCGAATCATTG
TTCAAAGCTGTTGGCCCTCTGCAAAGGAAATACAGTTCTGGGCAATCAGTGTTACCGTTCACAGTTGCCATTG
AGGGTTTCAGAGAGCCTTTTTCTAGGCCTACATGCTTTGTGAACAAGTCCCTGTAATTGTTGTTGTATGTATAA
TTCAAAGCACCAAAATAAGAAAAGATGTAGATTTATTTTCATCATATTATACAGACCGAACTGTTGTATAAAATTTA
TTTACTGCTAGTCTTAAGAACTGCTTTCTTTGTTTGTGTTTCAATATTTTCTTCTCTCAATTTTTCGGTT
GAATAAACTAGATTACATTGAGTTGGCAAAAAAAAAAAAAA

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FIGURE 826

MEVTADQPRWVSHHHPAVLNGQHPDTHHPGLSHSYMDAAQYPLPEEVDVLFNIDGQGNHVPPYYGNSVRATVQRY
PPTHGHSQVCRPPLLHGSLPWLDGGKALGSHHTASPWNLSPFSTSIHHGSPGPLSVYPPASSSSLSGGHASPFL
FTFPPTPPKDVSPDPSLSTPGSAGSARQDEKECLKYQVPLPDSMKLESSHSRGSMTALGGASSSTHHPITTYPPY
VPEYSSGLFPPSSLLGGSPGTGFGCKSRPKARSSTGRECVNCGATSTPLWRRDGTGHYLCNACGLYHKMNGQNRPL
IKPKRRLSAARRAGTSCANCQTTTTTLWRRNANGDPVCNACGLYYKLHNINRPLTMKKEGIQTRNRKMSSKSKKC
KKVHDSLED FPKNSSFNPAALSRHMSSLSHISPFSSHMLTTPTPMHPPSSLSFGPHHPSSMVTAMG

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FIGURE 827

ATGCACTCAAGCAGAGAAGAAATCCACAAAGACTCACAGTCTGCTGGTGGGCAGAGAAGACAGAAACGACATGAG
CACAGCAGGAAAAGTAATGAAATGCAAAGCAGCTGTGCTATGGGAGGTAAAGAAACCCCTTTTCCATTGAGGATGT
GGAGGTTGCACCTCCTAAGGCTTATGAAGTTCGCATTAAGATGGTGGCTGTAGGAATCTGTGCGACAGATGACCA
CGTGGTTAGTGGCAAACCTGGTGACCCCCCTTCCTGTGATTTTATAGCCATGAGGCAGCCGGCATCGTGGAGAGTGT
TGGAGAAGGGGTGACTACAGTCAAACCAGGTGATAAAGTCATCCCGCTCTTTACTCCTCAGTGTGGAATAATGCAG
AGTTTGTAAAAACCCGGAGAGCAACTACTGCTTGAAAAATGATCTAGGCAATCCCCGGGGGACCCTGCAGGATGG
CACCAGGAGGTTACCTGCAGGGGGAAGCCATTACCCTTCCTTGGCACCAGCACCTTCTCCAGTACACGGT
GGTGGATGAGAATGCAGTGGCCAAAATTGATGCAGCCTCGAACTGGAGAAAGTCTGCCTCATTGGCTGTGGATT
CTCGACTGGTTATGGGTCTGCAGTTAACGTTGCCAAGGTCACCCAGGCTCTACCTGTGCTGTGTTTGGCCTGGG
AGGGGTCGGCTATCTGCTGTTATGGGCTGTAAAGCAGCTGGAGCAGCCAGAATCATTGCGGTGGACATCAACAA
GGACAAATTTGCAAAGGCCAAAGTGTGGGTGCCACTGAATGCATCAACCCTCAAGACTACAAGAAACCCATCCA
GGAAGTGCTAAAGGAAATGACTGATGGAGGTGTGGATTTTTCGTTTGAAGTCATCGGTGCGCTTGACACCATGAT
GGCTTCCCTGTTATGTTGTCATGAGGCATGTGGCACAAGCGTCATCGTAGGGGTACCTCCTGCTTCCCAGAACCT
CTCAATAAACCCCTATGCTGCTACTGACTGGACGCACCTGGAAGGGGGCTGTTTATGGTGGCTTTAAGAGTAAAGA
AGGTATCCCAAACTTGTGGCTGATTTTATGGCTAAGAAGTTTTCCTGATGCGTTAATAACCCATGTTTAC
TTTTGAAAAATAAATGAAGGATTTGACCTGCTTCACTCTGGGAAAAGTATCCGTACCGTCTGACGTTTGTAGG
CAATAGAGATGCCTTCCCTGTAGCAGTCTTCAGCCTCCTCTACCCTACGAGATCTGGAGCAACAGCTAGGAAAT
ATCATTAATTCAGCTCTTCAGAGATGTTATCAATAAATTACACATGGGGGCTTTCCAAAGAAATGGAAATTGATG
GGAAATTATTTTTCAGGAAAAATTTAAATTCAGTGAGAAGTAAATAAAGTGTGAACATCAGCTGGGGAATTGA
AGCCAACAAACCTTCCCTTCTTAACCATTCTACTGTGTACCTTTGCCATTGAGGAAAAATATTCTGTGACTTCT
TGCATTTTTTGGTATCTTCATAATCTTTAGTCATCGAATCCAGTGGAGGGGACCCTTTTACTTGCCCTGAACATA
CACATGCTGGGCCATTGTGATTGAAGTCTTCTAACTCTGTCTCAGTTTTTCACTGTGACATTTTCCCTTTTCTAA
TAAAAATGTACCAATCCCTGGGGTAAAAGCTAGGGTAAAGGTAAAGGATAGACTCACATTTACAAGTAGTGAAGG
TCCAAGAGTTCTAAATACAGGAAATTTCTTAGGAACCTCAAATAAATGCCACATTTTACTACAGTAAATGGCA
GTGTTTTTATGACTTTTATACTATTTCTTTATGGTTCGATATACAATTGATTTTTTAAATAATAGCAGATTTCTT
GCTTCATATGACAAAGCCTCAATTACTAATTGTAAAACTGAACCTATTCCAGAATCATGTTCAAAAAATCTGTA
ATTTTTGCTGATCGAAAGTGCTTCATTGACTAAACAGTATTAGTTTGTGGCTATAAATGATTATTTAGATGATGA
CTGAAATGTGTATAAAGTAATTTAAAGTAATATGGTGGCTTTAAGTGTAGAGATGGGATGGCAATGCTGTGAA
TGCAGAATGTAAATTTGGTAACTAAGAAATGGCACAACACCTTAAGCAATATATTTTCTAGTAGATATATATA
TACACATACATATATACACATATACAAATGTATATTTTGCAAAATTGTTTCAATCTAGAACCTTTCTATTAAC
TACCATGTCTTAAATCAAGTCTATAATCCTAGCATTAGTTTAAATATTTTGAATATGTAAACACCTGTGTTAATG
CTTTGTTAATGCTTTTCCACTCTCATTGTGTTAATGCTTTCCACTCTCGGAAGGATTTGCATTTTGAGCTTTA
TCTCTAAATGTGACATGCAAAGATTATCCTGGTAAAGGAGGTAGCTGTCTCCAAAAATGCTATTGTTGCAATAT
CTACATTCTATTTTCAATATTATGAAAGACCCTTAGACATAAAGTAAATAGTTTATCATTT

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FIGURE 828

MSTAGKVMKCKAAVLWEVKKPFSIEDVEVAPPKAYEVRIKMVAVGICRTDDHVVSGLVTPLPVILGHEAAGIVE
SVGEGVTTVKPGDKVIPLFTPQCGKCRVCKNPESNYCLKNDLGNPRGTLQDGTTRFTCRGKPIHHFLGTSTFSQY
TVVDENAVAKIDAASKLEKVCLIGCGFSTGYGSVNVAKVTPGSTCAVFGLGGVGLSAVMGCKAAGAARI IAVDI
NKDKFAKAKVLGATECINPQDYKKPIQEVLKEMTDGGVDFSFEVIGRLDTMMASLLCCHEACGTSVIVGVPPASQ
NLSINPMLLLTGRTWKGA VYGGFKSKEGIPKLVADFMAKKFSLDALITHVLPFEKINEGFDLLHSGKSIRTVLTF

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FIGURE 829A

CGCCCAGGAATGGCTTCGGCGGGCAGCGGCATGGAGGAGGTGCGCGTGTGCGGTGCTGACCCCTTGAAGCTGGTC
GGGCTGGTGTGCATCTTCCCTGGCGCTGTGTCTGGACCTGGGGGCGGTGCTGAGCCCGGCCCTGGGTACAGCTGAC
CACCAGTACTACCTGTCGTTGTGGGAGTCTGCGCGAAACCCGCCAGCTTGGACATCTGGCACTGCGAGTCCACG
CTCAGCAGCGATTGGCAGATTGCTACTCTGGCTTTACTCCTGGGCGGCGCTGCCATCATTCTCATTGCATTCTCTG
GTGGGTTTGATTCTATCTGCGTGGGATCTCGAAGGCGTTTCTATAGACCTGTTGCGGTGATGCTTTTTGACGCA
GTTGTTTTACAGGTTTGACGCTGGTCTTTTACCCAATCAAGTTTATTGAACTGTGAGCTTGAAAATTTACCAT
GAGTTCAACTGGGGTTATGGCCTGGCCTGGGGTGCAACTATATTTTCGTTTGGGGGTGCCAICCTTTATTGCCTG
AACCCTAAGAATATGAAGACTACTACTAGAACCAATAGTCTCAAAGTAAAAACAACCACCACCATCCAACAAAA
GGATTACGCTGTCATCTTTTCTAACTTACTATTTTCTAAAACACTTGTGGAGCATCAAGCAGTTTGCTCAGTTGA
TTTAATCTTTTTTGCTTTTGGCTGTCAATATCATAACCAGCTTTTACATCCATTTTAGAAATCTGCACAAATTA
AGAGAGCTGATTAGACATAGGCAAATGCTGCAAACTTCCAATATGTTTCATATCGTTTTTCTTGACAAATGAAGGG
TCTATATGACAGCAACCATTGTGAGAACTAGTTGGAATGAGATTGCTCAATCTCCTATTGCCTGCAGGGGAG
CAGTTGGCATAAGCAACATTTAGAAGTTCTTTGCGCTGACAAGGATTCCACTGTTAGAGCCCTTACCGCCTGCT
TATCCTACCCAATGACTACATTGGCTGTTGGTTATTTGCTTGAGTGAGCCCTTGAAAAATGAACTGCCCTTCAGC
ATCTAATGGGAGTTGTGAATGTAAGTGGTTAATGATACACATTCCACCTTCAGGAACACTCTTTTTAATGGGAGG
TTATGCTTTGGCAATCAGCGTCTCCCTGGGAAGAGAGTCAAGACTTGGAGACATGTGCTTCTCATTATGTGGTTA
GAAATTGGTGCCTCAGCCCTATCTAGACTGGGGAAAAATGAGGATCTCTGTTTTTCTGGGGCAACAGAAAGA
AATCTGCATGAGTTGCTTTTGTACCCTTTAAATCATTGCCAAACATTGCAGCAAACAAGTGTGCGTATGTAACA
AGCTTCACTGTTTTTATAGAAGGTGAACATTAGTATAAATGGTAATAAGTTGTTCCCTAACCTCCACATACAT
TTGCCTATCACACGTAAAATTAATATTTACTCTAGTGAAGTGGTTGAGCACTAACCTGTACACATTGTTAAGA
GGCTTAGATTGGTATTCTACTTATTTACCATACAAAAGTATGGTACCTTAAAGCTTTTGCTCTATGTTCTTTAC
TGTTTCACTGGAAGTGTCAATAGAGTTGCCTAAGAAATAAAATGAAATGGTGTAAATCTGAAAATTAATGATT
CTCTGTAAGCACTGTAGTTGAAAAGAGAGTAGCAATTAGGATGATCATTGTTGTGTAATTCATTAAAAATAGAAG
GCTGCTATTTTTTGCAAGTATTTTAAATGTCTTCATTTTTTTAAGAAAGGAATAGCGATAGATTTATATAAATAT
CTAAATGTCTCAGTAGAGGAGTAGAATTCATCTGGTTATCACCTGGTCTCTGAAGTTAACTGATGGGCTAACCG
ATTTGTGCACACACTTAGGATGGATTTATGTTAAGGGAATTACTTACTGACTGTTCAATGGAAGGAAGTATTAAT
AATAGGGAATAAGTTTGCAACTAATCTCATGCTGCAAACTTGTGTTAATTCGTTTAAATATACAAATTTGGATAG
CTTAATTATAAACATATTTTTATATCAAATATACAGTTCTAATATAAAAGTTATAAATAATTATTTTTGTAAACA
AAGACACTAAAACAGTATGTTCTGGTTTTTGGCCCTCTTGCAAGAAAGCATTAGAAAAATTACTTTAAAAGTAG
CTATATGTTACTGTATTGCAAAATCTGTTAAGAGCAGGACCACATCGATAGTATTTAATAATTTGTTTTACCTCC
CAAAACACAGTTCTTCTTTTCTAGCTTGTCTTAAAGAAATGGTTGCCAAAAACAACAGCCAAAAAAAAAAAAACCTATT
TTATTATCCAAATGCTAGAAAACACACATGAATTTTCTATAAAATCACGAATATGAAGTACCAGGTTTAGTCTTA
CTTTAGCAATGATAGACAAAAGCGAATAAATACATCACAGACAGAAACCTTTATAAAAAATATATGATTCTATAAA
GAATCATTAGAAATTATGAGTGGAAATTCCTCCAGAAAGATAGTATTATAGAGTCTTTTGAAGCAATTTTTTGAGA
AATAGTAAATCTGGGGCAGAGTGTCTTGCAAGTTAATTGCATATTGTCAGAGCAGCATGAGAAATATGATATTTG
GATAGGGATTTTCAAGCACTAAACATTCTCTGTTCTGAGATCTCTTTATTCTGAATAATGAAAGAATAGTACTTT
GGTGCTGACACCAATGAGGCATTCTCTTGGTCTTAGTAGAGGATGCAGTGTACTGTTAAACCAATATCATCACA
TCTCGAGTCTTATCAAGTTTTTCTATTCTCTGTCAATATGACAAGCTCAAAGTGACAGAATATGTTATAGGTTGAAG
CACACATATTTGCAGTTTACTGAAAAGTAGATTCTTATGTGACTTTTTTCCCTTCTCAGCAAAGAGCCCTACAC
TAGATTTCTACCATCACTAATATTTGGAAGTATTTCTATTACTAACAATCTCAGTACAACATGAAAATTGTTGCTT
CTCATCTAAAATACAATTTTGTCTATCAGAATAAACACAAGTGAAATTTTACCTACATTAACATTATGTCTTTG
CAGCTTTAGGTTTGTAGATGTGTTCTTAAGCATAATTTTTAGCCACAAACCCATTGTTAGATAGATATCTATGG
ATATAGATCTACATCTATAGATATAGATATACACACATATATATACTCACACACATATAGCATAAAATACTCAGC
AGGGCTAGTTATTCCGATTTCTTGACAAATATTTAGCTTTTTGTAAAGTTCAACATGTAAATTTTAAAGACATAA
ATATAGAGAGACTTATGTGTTGAATATAAATGATATATATGGATTAGCATGTACCTGTATATTATTAACATGC
AATGAACTGACTGGTAAGTGACGTCTAATTGTATGGCTAGCAATGTAATTTATTTCAGACTGTATTTTTGTACAGA
GCAGTGCCTCTAACCTATGCCTCTGTGTCTCTTAAATGCCTAAAGCTGTGCCTAGAAATTTTCTGTCTTAA
AAGTAAATATACTTCATGCTGTTTATGCTATTAGTTTCTGTACTGCTATTCTATATTTATTATTTTTAAATATA

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FIGURE 829B

TGACATGTTTACTACTTAAACATGAATTCATGGTATCCTGGTTATTTTTTTTAAGTCATCTGGGGGAAAACCTGT
TTATCACTCCAGTGATTTTGAGTTTGCAGTTTCACAATCAGTTCTTCATTTCATGATTTTTGTAGTTGACATGAA
GTCATCTATGTGGAAAAAATAAAAATAAAAGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 830

MASAGSGMEEVRVSVLTPLKLVGLVCIFLALCLDLGAVLSPA WVTADHQYYLSLWESCRKPASLDIWHCESTLSS
DWQIATLALLLGGAAILIAFLVGLISICVGSRRRFYRPVAVMLFAAVVLQVCSLVLYPIKFIETVSLKIYHEFN
WGYGLAWGATIFSFGAILYCLNPKNYEDYY

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FIGURE 831

GTGGGAGGAGGCACCGGCCGCGCGGGAGGAGGTGCCGGCCGAGCACCGCAGACAGCGCCGGGAAGATGAGCA
CGGAAGGTGGTGGCCGTCGCTGCCAGGCACAAGTGTCCCGCCGCATCTCCTTCAGCGCGAGCCACCGATTGTACA
GTAAATTTCTAAGTGATGAAGAAAACCTGAAACTGTTTGGGAAATGCAACAATCCAAATGGCCATGGGCACAATT
ATAAAGTTGTGGTGACAGTACATGGAGAGATTGACCCTGCTACGGGAATGGTTATGAATCTGGCTGATCTCAAAA
AATATATGGAGGAGGCGATTATGCAGCCCCCTTGATCATAAGAATCTGGATATGGATGTGCCATACTTTGCAGATG
TGGTGAGCACGACTGAAAATGTAGCTGTTTATATCTGGGACAACCTCCAGAAAGTTCTTCCTGTAGGAGTTCTTT
ATAAAGTAAAAGTATACGAAACTGACAATAATATTGTGGTTTATAAAGGAGAAATAGCTATTGGGGTTAGCATTGC
ACAAAGCCCAGTTTCTTTCTGTGTTTGAAAAAGATTTTGATCCCCCTTGAATATTAAGAGGTCAACACGTGATTG
TTGTACGTACACATTGTGCTCTGGAGTGCCTATTTATTGAAATCATTGTAAGACCTGTTATAAATTTAAGTCTAT
TTAAACTAACTTGTAATATACATCCTGAAAATCATTAGAGAGTCTTTTATTTATAAATTAAAAATCACTTCA
TTTTACAAAATGTTTTGGTGTGGGATTATTTGAAAGCAAAAGAAATCTAATTTTGTCTCCATTACCTCATT
TTAGTATTAATTTTACTTGGTATAATATACATGGTTAAAATGCTTATGTGACTTCGAGTAGGTGAATCTTAAAG
AAATAAAATTCAAGTGACCAC

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FIGURE 832

MSTEGGGRRCAQVSRRISFSASHRLYSKFLSDEENLKLFGKCNNPNNGHGHNYKVVVTVHGEIDPATGMVMNLAD
LKKYMEEAIMQPLDHKNLMDVPYFADVSTTENVAVYIWDNLQKVLPGVLYKVKVYETDNNIVVYKGE

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FIGURE 833

GGCACGAGGGAGCAATGGAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCTTGTACC
TGCTGAACTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCACTGTGA
TATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCGGGCCCCCTCCGGGA
AACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGGTGACCT
GTATTGACCCCAACCCCAACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGTTTGAGC
GCTTTGTGGTAGCTGCCGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCACCTGG
TGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGCTGAGACCGGGAGGGGCTTTCT
ATTTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGAATTACTTCTGGCAACAAGTCCTGGATCCTGCCTGGC
ACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTAAGCTGA
AGCTGCAGCACATCCAGGCCCACTGTCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGAAATAGT
GTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAAATGCTAAGTGGGA
GAAGAGAAACCTTTTTTTTTGGGGGGCGGTTTTTTTTGGTTTGGTTGGTTTTTTTTTTTTTTTTTTTTGGCGGGAAGAA
AGAGTTTTGCTCTTGTGCCCCAGGCTGGAGTGCAATGGCGTGGTCTCCGCTCACTGCAACCTCCACCTCGCGGGT
TTAGGCGATTCTTCTGCCTCAGCCTCCCTAGTAGCTGGGATTACAGGTGCCACCACCATGCCAGCTAATTTGT
ATTTTTAGTTGAGACAGGTTTCACTACGTTGGCCAGGCTGGTCTTGAACCTCTGATCTCAGGCAATCCACCCAC
CTCAGCCTCCCAAAGTGCTGGGATGACAGGCGTGAGCAACCGCACCCAGCTTAAGGTTTTTTTGTTTTGTTTGA
GACGGAGTTTTCGCTCTTGTGCCCCAGGCTGGAGTGCAATGCTGTGATCTCAGCTTACCACAACCTCCACCTCCC
GGGTTCAGGTGATTACCTGCCTCAGCCTCCTGAGTGGCTGGTATTACAGGCATGCGTCACCACGCCGGCTAATT
TTGTACTTTTTAGTAGAGATGGTGTTCCTCCACGTTGGTCAGTCTGGTCTCAAATTCCTGACCTCAGGTGATCTGC
CTGCCTCGGCCTCCCAAAGTGCTGTGATTACAGACGTCAGCCACCATGCCTGGCCTGAAACCTTTTTTAGGTAAA
GTTGAATTCATCCTTAAAAGTTTCTGTTATATCCTATTTAGCCATTTTCTATTGTCTCCCAAAGAATTCACATC
AAAAAACAGCTTTGAACTCCCCCTCAAAGGAAACAGTCGACTTTCATAATTAGCATCTACCATTATCCCCAAA
TCTTATTTTATTCATTGACTTGAAATTTTTTCCAATTGCTTTTTTTTTTTTTTTTTTAAAGGTTAAGAGCAGAGG
TTTACTAGGCCAAAGAAAGAGATAGCTCTCTGTTGCAGAGAGGGTCTGGAGAAATGGGTTACCCCAAGTTGTC
TTATTTAAATGGTTACCCATCAGATTTTAATTTTATCTTCTCTTTGAGAGCTTGTAATAAGAAGCACTTAAATC
ACTCAAAGAAGACTTTAAAAAGGGAGCAGTGAAAAGGTCTTAATAATTTATTGATTGAATTAAGAAATACTAGC
TAATTAAGAATCTGAGTCTAAACAGCACAGATTTTTTCTTTCTGCTTTTAAATTGTGTTTTAAAAAAGAGACAG
GGGGCTGGGCGTGGTGGCTCACGCTGTAATCCTAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGTAGGA
GTTAAAGACCAGCCTGGCCAACATGGCAAAACCCTACTAAAGATACAAAAAATTTGGCCAGGCGTGG
TGGTGGGTGCCTGTAATCCAGGTACTTGGAAGGCTGAGGCAGGAGAATCTCTTGAACCCAGAAGGCGAAGGTTG
CAGTGAACCGAGATCATGCCATTGTACTCTAGCCTGGGTGACAAGAGCAAGACTCCGTCTCAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 834

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFPYFLVRFTVIYNEQMASKKRELF SNLQEFAGPSGKLSLL
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVVCTLVLC SV
KNQERILREVCRLRPGGAFYFMEHVAAECSTWNYFWQVLDPAWHLLFDGCNLTRESWKALERASF SKLKLQHI
QAPLSWELVRPHIYGYAVK

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FIGURE 835

CTCTCTGCCCACCTCTGCTTCCTCTAGGAACACAGGAGTTCAGATCACATCGAGTTCACCATGAATTCACTCAG
TGAAGCCAACACCAAGTTCATGTTTCGACCTGTTCCAACAGTTCAGAAAATCAAAAGAGAACAACATCTTCTATTC
CCCTATCAGCATCACATCAGCATTAGGGATGGTCCCTCTTAGGAGCCAAAGACAACACTGCACAACAGATTAAGAA
GGTTCTTCACTTTGATCAAGTCACAGAGAACCACAGGAAAAGCTGCAACATATCATGTTGATAGGTCAGGAAA
TGTTTCATCACCAGTTTCAAAAGCTTCTGACTGAATTCAACAAATCCACTGATGCATATGAGCTGAAGATCGCCAA
CAAGCTCTTCGGAGAAAAAACGTATCTATTTTTACAGGAATATTTAGATGCCATCAAGAAATTTTACCAGACCAG
TGTGGAATCTGTTGATTTTGC AAATGCTCCAGAAGAAAGTCGAAAGAAGATTAACTCCTGGGTGGAAAGTCAAAC
GAATGAAAAAATTAAAAACCTAATTCTGAAGGTAATATTGGCAGCAATACCACATTGGTTCTTGTGAACGCAAT
CTATTTCAAAGGGCAGTGGGAGAAGAAATTTAATAAAGAAGATACTAAAGAGGAAAAATTTTGGCCAAACAAGAA
TACATACAAGTCCATACAGATGATGAGGCAATACACATCTTTTCATTTTGCTCGCTGGAGGATGTACAGGCCAA
GGTCTCGGAAATACCATACAAAGGCCAAAGATCTAAGCATGATTGTGTTGCTGCCAAATGAAATCGATGGTCTCCA
GAAGCTTGAAGAGAACTCACTGCTGAGAAATTGATGGAATGGACAAGTTTGCAGAATATGAGAGAGACACGTGT
CGATTTACACTTACCTCGGTTCAAAGTGGAAGAGAGCTATGACCTCAAGGACACGTTGAGAACCATGGGAATGGT
GGATATCTTCAATGGGGATGCAGACCTCTCAGGCATGACCGGGAGCCGCGGTCTCGTGCTATCTGGAGTCCTACA
CAAGGCCTTTTGTGGAGGTTACAGAGGAGGGAGCAGAAGCTGCAGCTGCCACCGCTGTAGTAGGATTTCGGATCATC
ACCTACTTCAACTAATGAAGAGTTCCATTGTAATCACCCCTTTCCTATTCTTCATAAGGCCAAAATAAGACCAACAG
CATCCTCTTCTATGGCAGATTCTCATCCCCGTAGATGC AATTAGTCTGTCACTCCATTGGA AAATGTTACCTG
CAGATGTTCTGGTAAACTGATTGCTGGCAACAACAGATTCTTTGGCTCATATTTCTTTTCTTTCTCATCTTGAT
GATGATCGTCATCATCAAGAATTTAATGATTAAAATAGCATGCCTTTCTCTCTTTCTCTTAATAAGCCACATAT
AAATGTACTTTTTCTTCCAGAAAAATTCTCCTTGAGGAAAAATGTCCAAAATAAGATGAATCACTTAATACCGTA
TCTTCTAAATTTGAAATATAATTCTGTTTGTGACCTGTTTTAAATGAACCAAACCAATCATACTTTTTCTTTGA
ATTTAGCAACCTAGAAACACACATTTCTTTGAATTTAGGTGATACCTAAATCCTTCTTATGTTTCTAAATTTGT
GATTCTATAAAACACATCATCAATAAAATAGTGACATAAAATCA

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FIGURE 836

MNSLSEANTKFMFDLFQQFRKSKENNIFYSPISITSALGMVLLGAKDNTAQQIKKVLHFDQVTENTTGKAATYHV
DRSGNVHHQFQKLLTEFNKSTDAYELKIANKLFGEKTYLFLQEYLDIAKKFYQTSVESVDFANAPEESRKKINSW
VESQTNEKIKNLIPEGNIGSNTTLVLVNAIYFKGQWEKKFNKEDTKEEKFWPNKNITYKSIQMMRQYTSFHFASLE
DVQAKVLEIPYKGKDLSMIVLLPNEIDGLQKLEEKLTAEKLMEWTSLQNMRETRVDLHLPFRKVEESYDLKDTLR
TMGMVDIFNGDADLSGMTGSRGLVLSGVLHKAFVEVTEEGAEAAAATAVVGFGSSPTSTNEEFHCNHPFLFFIRQ
NKTNSILFYGRFSSP

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FIGURE 837

CCCAGGCGCAGCCAATGGGAAGGGTCGGAGGCATGGCACAGCCAATGGGAAGGGCCGGGGCACCAAAGCCAATGG
GAAGGGCCGGGAGCGCGCGCGGGAGATTTAAAGGCTGCTGGAGTGAGGGGTGCGCCGTGCACCCTGTCCCAG
CCGTCTGTCTGGCTGCTCGCTCTGCTTCGCTGCGCCTCCACTATGCTCTCCCTCCGTGTCCCGCTCGCGCCCA
TCACGGACCCGCAGCAGCTGCAGCTCTCGCCGTGAAGGGGCTCAGCTTGGTCGACAAGGAGAACACGCCGCCGG
CCCTGAGCGGGACCCGCTCTGGCCAGCAAGACCGCGAGGAGGATCTTCCAGGAGCCACGGAGCCGAAAACTA
AAGCAGCTGCCCCGGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCCCGCCGCTTTGTCTCTTCCCATCG
AGTACCATGATATCTGGCAGATGTATAAGAAGGCAGAGGCTTCCTTTTGGACCGCCGAGGAGGTTGACCTCTCCA
AGGACATTGAGCACTGGGAATCCCTGAAACCCGAGGAGAGATATTTTATATCCCATGTTCTGGCTTTCTTTGCAG
CAAGCGATGGCATAGTAAATGAAAACCTTGGTGGAGCGATTTAGCCAAGAAGTTCAGATTACAGAAGCCCGCTGTT
TCTATGGCTTCCAAATTGCCATGGAAAACATACATTCTGAAATGTATAGTCTTCTTATTGACACTTACATAAAAG
ATCCCAAAGAAAGGGAATTTCTCTTCAATGCCATTGAAACGATGCCTTGTGTCAAGAAGAAGGCAGACTGGGCCCT
TGCGCTGGATTGGGGACAAAGAGGCTACCTATGGTGAACGTGTTGTAGCCTTTGCTGCAGTGGGAAGGCATTTTCT
TTTCCGGTTCTTTTGCCTCGATATTCTGGCTCAAGAAAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAAC
TTATTAGCAGAGATGAGGGTTTACACTGTGATTTTGTCTGCCTGATGTTCAAACACCTGGTACACAAACCATCGG
AGGAGAGAGTAAGAGAAATAATTATCAATGCTGTTTCGGATAGAACAGGAGTTCCTCACTGAGGCCTTGCCCTGTGA
AGCTCATTGGGATGAATTGCACTCTAATGAAGCAATACATTGAGTTTGTGGCAGACAGACTTATGCTGGAAGTGG
GTTTTAGCAAGGTTTTTTCAGAGTAGAGAACCCATTTGACTTTATGGAGAATATTTCACTGGAAGGAAAGACTAACT
TCTTTGAGAAGAGAGTAGGCGAGTATCAGAGGATGGGAGTGATGTCAAGTCCAACAGAGAATTCTTTTACCTTGG
ATGCTGACTTCTAAATGAACCTGAAGATGTGCCCTTACTTGGCTGATTTTTTTTTTTTCCATCTCATAAGAAAAATCA
GCTGAAGTGTTACCAACTAGCCACACCATGAATTGTCCGTAATGTTTATTAAACAGCATCTTTAAACTGTGTAGC
TACCTCACAACCAGTCCTGTCTGTTTATAGTGTCTGCTGATACCTTTTGCCAGAAGGCCTGGCTGGCTGTGAC
TTACCATAGCAGTGACAATGGCAGTCTTGGCTTTAAAGTGAGGGGTGACCCTTTAGTGAGCTTAGCACAGCGGGA
TTAAACAGTCCTTTAACCAGCACAGCCAGTTAAAGATGCAGCCTCACTGCTTCAACGCAGATTTTAATGTTTAC
TTAAATATAAACCTGGCACTTTACAAACAAATAAACATGTTTTGTACTCACGGCGGCGATAATAGCTTGATTTA
TTTGGTTTCTACACCAAATACATTCTCCTGACCACTAATGGGAGCCAATTCACAATTCACTAAGTGACTAAAGTA
AGTTAACTTGTGTAGACTAAGCATGTAATTTTTAAGTTTTATTTAATGAATTAAATATTTGTTAACCAACTT
TAAAGTCAGTCCTGTGTATACCTAGATATTAGTCAGTTGGTGCCAGATAGAAGACAGGTTGTGTTTTATCCTGT
GGCTTGTGTAGTGTCTGGGATTCTCTGCCCCCTCTGAGTAGAGTGTGTGGGATAAAGGAATCTCTCAGGGCAA
GGAGCTTCTTAAAGTTAAATCACTAGAAATTTAGGGGTGATCTGGGCCTTCATATGTGTGAGAAGCCGTTTCATTT
TATTTCTCACTGTATTTTCTCAACGTCTGGTTGATGAGAAAAAATCTTGAAGAGTTTTTCATATGTGGGAGCTA
AGGTAGTATTGTAAAATTTCAAGTCATCCTTAAACAAAATGATCCACCTAAGATCTTGCCCTGTAAAGTGGTGA
AATCAACTAGAGGTGGTTTCTTACAAGTTGTTTCACTTAGTTTTGTTTGGTGTAAAGTAGGTTGTGTGAGTTAATTC
ATTTATATTTACTATGTCTGTTAAATCAGAAATTTTTTATTATCTATGTTCTTCTAGATTTTACCTGTAGTTCAT
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 838

MLSLRVPLAPITDPQQLQLSPLKGLSLVDKENTPPALSGTRVLASKTARRIFQEPTEPKTKAAAPGVEDEPLLRE
NPRRFVIFPIEYHDIWQMYKKAEEASFWTAEVDLSKDIQHWESLKPEERYFISHVLAFFAASDGIVNENLVERFS
QEVQITEARCFYGFQIAMENIHSEMYSLIDTYIKDPKEREFLFNAIETMPCVKKKADWALRWIGDKEATYGERV
VAFAAVEGIFFGSGSFASIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFKHLVHKPSEERVREIIINAVRIE
QEFLTEALPVKLIGMNCTLMKQYIEFVADRLMLELGF SKVFRVENPFDFMENISLEGKTNFFEKRVG EYQRMGVM
SSPTENSFTLDADF

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FIGURE 839

CATCCTGCCACCCCTAGCCTTGCTGGGGACGTGAACCCTCTCCCCGCGCCTGGGAAGCCTTCTTGGCACCGGGAC
CCGGAGAATCCCCACGGAAGCCAGTTCCAAAAGGGATGAAAAGGGGGCGTTTCGGGCACTGGGAGAAGCCTGTAT
TCCAGGGCCCCCTCCCAGAGCAGGAATCTGGGACCCAGGAGTGCCAGCCTCACCCACGCAGATCCTGGCCATGAGA
GCTCCGCACCTCCACCTCTCCGCCGCTCTGGCGCCCGGGCTCTGGCGAAGCTGCTGCCGCTGCTGATGGCGCAA
CTCTGGGCGCGCAGAGGCGGCGCTGCTCCCCAAAACGACACGCGCTTGACCCCGAAGCCTATGGCTCCCCGTGC
GCGCGGGCTCGCAGCCCTGGCAGGTCTCGCTCTTCAACGGCCTCTCGTTCCACTGCGCGGGTGTCTGGTGGAC
CAGAGTTGGGTGCTGACGGCGCGCACTGCGGAAACAAGCCACTGTGGGCTCGAGTAGGGGATGACCACCTGCTG
CTTCTTCAGGGAGAGCAGCTCCGCCGGACCACTCGCTCTGTTGTCCATCCCAAGTACCACCAGGGCTCAGGCCCC
ATCCTGCCAAGGCGAACGGATGAGCACGATCTCATGTTGCTGAAGCTGGCCAGGCCCCGTAGTGCTGGGGCCCCGC
GTCCGGGCCCTGCAGCTTCCCTACCGCTGTGCTCAGCCCGGAGACCAGTGCCAGGTTGCTGGCTGGGGCACCACG
GCCGCCCGGAGAGTGAAGTACAACAAGGGCCTGACCTGCTCCAGCATCACTATCCTGAGCCCTAAAGAGTGTGAG
GTCTTCTACCTGGCGTGGTCACCAACAACATGATATGTGCTGGACTGGACCGGGGCCAGGACCCCTTGCCAGAGT
GACTCTGGAGGCCCCCTGGTCTGTGACGAGACCCTCCAAGGCATCCTCTCGTGGGGTGTTTACCCCTGTGGCTCT
GCCCAGCATCCAGCTGTCTACACCCAGATCTGCAAATACATGTCCTGGATCAATAAAGTCATACGCTCCAACTGA

TCCAGATGCTACGCTCCAGCTGATCCAGATGTTATGCTCCTGCTGATCCAGATGCCAGAGGCTCCATCGTCCAT
CCTCTTCCTCCCCAGTCGGCTGAACTCTCCCCTTGCTCTGCACTGTTCAAACCTCTGCCGCCCTCCACACCTCTAA
ACATCTCCCCTCTCACCTCATTCCCCCACCTATCCCATTCTCTGCCTGTACTGAAGCTGAAATGCAGGAAGTGG
TGGCAAAGGTTTATTCCAGAGAAGCCAGGAAGCCGGTCATCACCCAGCCTCTGAGAGCAGTTACTGGGGTCACCC
AACCTGACTTCCTCTGCCACTCCCTGCTGTGTGACTTTGGGCAAGCCAAGTGCCCTCTCTGAACCTCAGTTTCCT
CATCTGCAAAATGGGAACAATGACGTGCCTACCTCTTAGACATGTTGTGAGGAGACTATGATATAACATGTGTAT
GTAAATCTTCATGGTGATTGTCATGTAAGGCTTAACACAGTGGGTGGTGAGTTCTGACTAAAGGTTACCTGTTGT
CGTGA

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FIGURE 840

MRAPHLHLSAASGARALAKLLPLLMAQLWAAEAALLPQNDTRLDPAYGAPCARGSQPWQVSLFNGLSFHCAGVL
VDQSWVLTAAHCGNKPLWARVGDDHLLLQGEQLRRITRSVVHPKYHQSGPILPRRTDEHDLMLLKLARPVVPG
PRVRALQLPYRCAQPGDQCQVAGWGTTAARRVKYNKGLTCSSITILSPKECEVFYPGVVTNNMICAGLDRGQDPC
QSDSGGPLVCDETLLQGILSWGVPYPCGSAQHPAVYTQICKYMSWINKVIRSN

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FIGURE 841

ATGACCACCTGCAGCCGCCAGTTCACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGAGGCGGCATCGGG
GCGGGCTCCAGCCGCATCTCCTCCGTCTGGCCGGGGCCTCCTGCCCTGCCAGCACCTACGGGGGCGCCTCTGTC
TCCTCTCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGC
TTTGGTAGTGGCTTCGGGGGAGGATATGGTGGTGGCCTTGGTGTGGCTTCGGTGGTGGCTTGGGTGCTGGCTTT
GGTGGTGGTTTTGCTGGTGGTGGTGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAATGACCGC
CTGGCCTCCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGTGACTGG
TACCAGAGGCAGCGGGCCAGTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATCGAGGACCTGAGGAACAAG
ATCATTGCGGCCACCATTGAGAATGCGCACGCCCTTTTGCAGATTGACAATGCCAGGCTGGCAGCCGATGACTTC
AGGACCAAGTATGAGGCACGAAGTGGCCTGCGGCAGACTGTGGAGGCCGACGTCAATGGCCTGCGCCGGGTGTTG
GATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGATCGAAGGCCTGAAGGAGGAGCTGGCCTACCTGAGG
AAGAACCACGAGGAGGAGATGCTTGCTCTGAGAGGTCAGACCGGCGGAGATGTGAACGTGGAGATGGATGCTGCA
CCTGGCGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGACCAGTACGAGCAGATGGCAGAGAAAAACCGCAGA
GACGCTGAGACCTGGTTCTGAGCAAGACCGAGGAGCTGAACAAAGAAGTGGCCTCCAACAGCGAACTGGTACAG
AGCAGCCGCAGTGAGGTGACGGAGCTCCGGAGGGTGCTCCAGGGCCTGGAGATTGAGCTGCAGTCCCAGCTCAGG
ATGAAAGCATCCCTGGAGAACAGCCTGGAGGAGACCAAAGGCCGCTACTGCATGCAGCTGTCCCAGATCCAGGGA
CTGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCCAGGAGTACCAGATC
TTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTACCGCCGCCTGCTGGAGGGCGAGGATGCCCCAC
CTTTCCTCCCAGCAAGCATCTGGCCAATCCTATTCTTCCC GCGAGGTCTTCACCTCCTCCTCGTCTCTTCAGCC
GTCAGACCCGGCCCATCCTCAGAGCAGAGCTCATCCAGCTTCAGCCAGGGCCAGAGCTCCTTAG

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FIGURE 842

MTTCSRQFTSSSSMKGSCGIGGGIGAGSSRISSVLAGASCPASTYGGASVSSRFSSGGACGLGGGYGGGFSSSSS
FGSGFGGGYGGGLGAGFGGGLGAGFGGGFAGGDGLLVGSEKVTMQLNDRLASYLDKVRALEEANADLEVKIRDW
YQRQRPSEIKDYSFYFKTIEDLRNKIIAATIENAHALLQIDNARLAADDFRTKYEARTGLRQTVEADVNGLRRLV
DELTARTDLEMQIEGLKEELAYLRKNHEEMLALRGQTGGDVNVEMDAAPGVDLRILNEMRDQYEQMAEKNRR
DAETWFLSKTEELNKEVASNSELVQSSRSEVTELRRVLQGLEIELQSLRMKASLENSLEETKGRYCMQLSQIQG
LIGSVEEQLAQLRCEMEQQSQEYQILLDVKTRLEQEIATYRRLLEGEDAHLSSQQASGQSYSSREVFTSSSSSSA
VRPGPSSEQSSSSFSQGQSS

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FIGURE 843

AGAGCCGGCGCCGTCACCGCCCGCATTGCCGCTCCCAGTCCCGCGCTCGGCACGACATGAAATCCCCGACGAGG
TGCTACGCGAGGGCGAGTTGGAGAAGCGCAGCGACAGCCTCTTCCAGCTATGGAAGAAGAAGCGCGGGGTGCTCA
CCTCCGACCGCCTGAGCCTGTTCCCCGCCAGCCCCCGCGCGCGCCCCAAGGAGCTGCGCTTCCACTCCATCCTCA
AGGTGGACTGCGTGGAGCGCACGGGCAAGTACGTGTACTTCACCATCGTCACCACCGACCACAAGGAGATCGACT
TCCGCTGCGCGGGCGAGAGCTGCTGGAACGCGGCCATCGCGCTGGCGCTCATCGATTTCCAGAACCGCCGCGCCC
TGCAGGACTTTTCGACCGCCAGGAACGCACCGCACCCGCGCACCCGCGAGGACGCCGTGGCTGCCGCGGCCG
CCGCACCCTCCGAGCCCTCGGAGCCCTCCAGGCCATCCCCGCAGCCCAAACCCCGCACGCCATGAGCCCCGCCGCG
GGCCATACGCTGGACGAGTCGGACCGAGGCTAGGACGTGGCCGGCGCTCTCCAGCCCTGCAGCAGAAGAACTTCC
CGTGCGCGCGGATCCTCGCTCCGTTGCACGGGCGCCTTAAGTTATTGGACTATCTAATATCTATGTATTTATTTTC
GCTGGTTCTTTGTAGTCACATATTTTATAGTCTTAATATCTTGTTTTTGCATCACTGTGCCCATTGCAAATAAAT
CACTTGGCCAGTTTGCTTTTCTACCATCCGGCTGTGGCTCAGTGAGACTCCTGCTGGGAGGGTGGAGGCCAGGA
ATGGGCGGGCAGGACACCCCTCATCCAGTCCTGCGGGGCTGGTGTGAAAGGCGCTGGGAACCGGCTTTGAATGAAT
AAATGAATCGTGT

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FIGURE 844

MKSPDEVLRERGELEKRSDSLFQLWKKKRGVLTSDRLSLFPASPRARPKELRFHSILKVDCVERTGKYVYFTIVTT
DHKEIDFRCAGESCWNAALALIDFQNRRLQDFRSRQERTAPAAPAEDAVAAAAAAPSEPSEPSRPSQPKPR
TP

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FIGURE 845

GGCTCCTTCGGGAAACCCAGCCCCGTCACCGGGCTCCGAGCGGCTCGCAGGCGAGCGACAGCGGCCTCAGCCCCG
GCAGCGCCAGCGGCGGCTGCGGAAAGCGGAGGGAGTCCGACGCGGGCGCGGGCGGGGAGCGTGCGTCCGTTTCGC
ACAGGCAGCGGGAGGAGGGGCGGCGGAACCAATGCCGGGGACAGCGAGCAGACCCTGCAGAACCACCAGCAGCC
CAACGGCGGCGAGCCCTTCCTTATAGGCGTCAGCGGGGGAACAGCTAGCGGCAAGTCTTCCGTGTGTGCTAAGAT
CGTGCAGCTCCTGGGGCAGAATGAGGTGGACTATCGCCAGAAGCAGGTGGTCATCCTGAGCCAGGATAGCTTCTA
CCGTGTCCTTACCTCGGAGCAGAAGGCCAAAGCCCTGAAGGGCCAGTTCAACTTTGACCACCCGGATGCCTTTGA
CAATGAACTCATTCTCAAAACACTCAAAGAAATCACTGAAGGGAAAACAGTCCAGATCCCCGTGTATGACTTTGT
CTCCCATTTCCGGAAGGAGGAGACAGTTACTGTCTATCCCGCAGACGTGGTGCTCTTTGAAGGGATCCTGGCCTT
CTACTCCAGGAGGTACGAGACCTGTTCCAGATGAAGCTTTTTGTGGATACAGATGCGGACACCCGGCTCTCAGC
CAGAGTATTAAGGGACATCAGCGAGAGAGGCAGGGATCTTGAGCAGATTTTATCTCAGTACATTACGTTTCGTCAA
GCCTGCCTTTGAGGAATTCTGCTTGCCAACAAAGAAGTATGCTGATGTGATCATCCCTAGAGGTGCAGATAATCT
GGTGGCCATCAACCTCATCGTGACGACATCCAGGACATCCTGAATGGAGGGCCCTCCAAACGGCAGACCAATGG
CTGTCTCAACGGCTACACCCCTTCACGCAAGAGGCAGGCATCGGAGTCCAGCAGCAGGCCCGCATTGACCCGTCTC
CATCGGACCCCAGCCCCATCTCCAAGAGACAGAGGAGGGGTGAGGAGGCACTGCTCATCTGTACATACTGTTTC
CTATGACATTACTGTATTTAAGAAAAACACCATGGAGATGAAATGCCTTTGATTTTTTTTTTCTTTTTGTACTTTG
GAACGACAAAATGAAACAGAACTTGACCCCTGAGCTTAAATAACAAAACGTGTGCCAACTACTACTGGTGATGCCTA
ATTATGAATCCAACGTGTAACCAGTTATAAATACATATATATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 846

MAGDSEQTLQNHQQPNGGEPFLIGVSGGTASGKSSVCAKIVQLLGQNEVDYRQKQVVILSQDSFYRVLTSEQKAK
ALKGQFNFDHPDAFDNELILKTLKEITEGKTIVQIPVYDFVSHSRKEETVTVYPADVVLFEGLAFYSQEVRLDFQ
MKLFVDTDADTRLSSRVLRDISERGRDLEQILSQYITFVKPAFEEFCLPTKKYADVIIIPRGADNLVAINLIVQHI
QDILNGGPSKRQTNGCLNGYTPSRKRQASESSSRPH

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FIGURE 847A

GAAAAACACGAGCCGTGTTGTATGTGGAGGCCCCGGTGTCTGGGTGTAATTCTCGTTCCTTCTGTGAGGTGAGGC
AGATGAAGCCATTTTCGTGGTTCTGCTGAGCATGGTCTTGGCAGTGTTTTTGGGAGCATCACACTGTGCCCTTTT
GTAACTTGCTAGCCCGGCCTGTCTTTTGCCCGGGCTCAATGGCTGGATTGTGGAACTGCACCCGCCTTCAGG
TTGTTGAGCAACTGATGGGACGATCTCAGGGACCGGCGTTTACGAAAGAAATGTTTAATTTGGTAAATTGGAGGA
AAAAACATGGATTTTTAGCAATTGAAGAGCAAATTAAGGTTTCAGATTGGGATATTGGTGTCTGTCTTTTGA
GAAATTATTCTTTTCTTTTAAATTTGAAGAAAAATCATCAGTCTTGGAAATACAGAAGAGAACTAGAAATATAC
GTATTTTGTTCACATTTGAACAGTCATTCTTGAGGAATACTCCATACCTGAGTAGACAGCCATGTGGCCATCGC
AGCTACTAATTTTCATGATGCTCTTAGCTCCAATAATTCATGCTTTAGCCGTGCCCAATTCCAATGGCTGTGG
TCCGCAGAGAGCTATCCTGTGAGAGCTATCCTATAGAGCTTCGCTGTCCAGGAACAGACGTCATCATGATAGAAA
GTGCCAACTATGGCAGGACTGATGACAAAATTTGTGACTCTGACCCTGCTCAGATGGAGAATATCCGATGTTATC
TGCCAGATGCCTATAAGATTATGTCTCAAAGATGCAATAACAGAACCCAGTGTGCAGTGGTGGCAGGTCTTGATG
TTTTTCCAGACCCGTGTCCAGGAACCTATAAATACCTTGAAGTGCAGTATGAATGTGTCCCTTACAAAGTGGAAC
AAAAAGTTTTTCTTTGTCTGGACTACTAAAAGGAGTATACCAGAGTGAACATTTGTTTGAGTCCGACCACCAAT
CTGGGGCGTGGTGCAAAGACCCTCTGCAGGCATCTGACAAGATTTATTATATGCCCTGGACTCCCTACAGAACTG
ATACCCTGACTGAGTATTCATCCAAGGATGACTTCATTGCTGGAAGACCAACTACAACCTACAAGCTCCCTCATA
GGGTGGATGGCACAGGATTTGTAGTGTATGATGGAGCTTTGTTCTTCAACAAAGAGCGCACCAGGAACATAGTAA
AGTTTGATTTGCGGACTAGGATAAAGAGTGGAGAGGCTATCATAGCAAATGCCAATTACCATGATACCTCCCCTT
ACCGATGGGGAGGCAAATCTGACATAGACCTGGCAGTAGATGAGAATGGGCTATGGGTAATCTATGCAACAGAAC
AAACAATGGTAAATTTGTCAATTAGTCAATTGAACCTTACACCTACGGATCGAAGGAACATGGGATACTGCAT
ATGATAAAAGGTCAGCTTCCAATGCCTTTATGATTGTGGAATTCGTATGTGGTCAAATCTGTATATGAGGATG
ATGACAATGAGGCTACTGGAATAAGATTGACTACATTTACAACACTGACCAAAGCAAGGATAGTTTGGTGGATG
TACCCTTTCTTAATTCATACCAGTACATTGCAGCTGTGGATTACAACCCAGGGACAACCTACTTTATGTATGGA
ATAACTATCACGTCGTGAAATATTCTTTGGATTTTGGACCTCTGGATAGTAGATCAGGGCAGGCACATCATGGAC
AAGTTTCATACATTTCTCCGCCAATTCACCTTGACTCTGAGCTAGAAAGACCCTCTGTAAAGATATCTCTACCA
CAGGACCTCTTGGCATGGGAAGCACTACCACCAGTACCACCCTTCGGACCACAACCTTTGAGCCCAGGAAGGAGTA
CCACCCCGTCAGTGTGAGGAAGAAGAAACCGGAGTACTAGTACCCCATCTCCAGCTGTGAGGCTGTGGAAGCCCCGAG
AAATCATGTGGTTTAAAGACTCGTCAAGGACAGATAGCAAAGCAGCCATGCCCTGCAGGAACCTATAGGTGTATCAA
CTTATCTATGCCTTGCTCCTGATGGAATTTGGGATCCCCAAGGTCCAGATCTCAGCAACTGTTCTTCTCCTTGGG
TCAATCATATAACACAGAAGTTGAAATCTGGTGAAACAGCTGCCAACATTGCTAGAGAGCTGGCTGAACAGACAA
GAAATCACTTGAATGCTGGGGACATCACTACTCTGTCCGGGCCATGGACCAGCTGGTAGGCCTCCTAGATGTAC
AGCTTCGGAACCTTGACCCCAGGTGGAAGAGATAGTGTGCCCGGAGTTTGAACAAGCTTCAGAAAAGAGAGCGCT
CTTGACAGAGCCTATGTCCAGGCAATGGTGCAGACAGTTAACAACCTCCTTCAGCCACAAGCTTTGAATGCATGGA
GAGACCTGACTACGAGTGATCAGCTGCGTGCAGGCCACCATGTTGCTTCATACTGTGGAGGAAAGTGCTTTTGTGC
TGGCTGATAACCTTTTGAAGACTGACATTGTGAGGGAGAATACAGACAATATTAAATTGGAAGTTGCAAGACTGA
GCACAGAAGGAAACTTAGAAGACCTAAAAATTTCCAGAAAACATGGGCCATGGAAGCACTATCCAGCTGTCTGCAA
ATACCTTAAAGCAAAATGGCCGAAATGGAGAGATCAGAGTGGCCTTTGTCTGTATAACAACCTTGGGTCTTATT
TATCCACGGAGAATGCCAGTATGAAGTTGGGAACGGAAGCTTTGTCCACAATCATTCTGTATTGTCAATTCCC
CTGTTATTACGGCAGCAATAAACAAGAGTTTCAAGTAAAGGTTTATTTGGCTGATCCTGTGGTATTTACTGTTA
AACATATCAAGCAGTCAGAGGAAAATTTCAACCCTAACTGTTTCAATTTGGAGCTACTCCAAGCGTACAATGACAG
GTTATTGGTCAACACAAGGCTGTCCGCTCCTGACAACAAATAAGACACATACTACATGCTCTTGTAACCACCTAA
CAAATTTTGCAGTACTGATGGCACATGTGGAAGTTAAGCACAGTGATGCGGTCCATGACCTCCTTCTGGATGTGA
TCACGTGGGTGGAATTTTGTGTCCCTTGTTTGTCTCCTGATTGTCATCTTCACATTTTGTCTTTTCCGCGGGC
TCCAGAGTGACCGTAACACCATCCACAAGAACCTCTGCATCAGTCTCTTTGTAGCAGAGCTGCTCTTCTGATTG
GGATCAACCGAACTGACCAACCAATTGCCTGTGCTGTTTTCGCTGCCCTGTTACATTTCTTCTTCTTGGCTGCCT
TCACCTGGATGTTCTTGGAGGGGGTGCAGCTTTATATCATGCTGGTGGAGGTTTTTGGAGGTGAACATTCACGTA
GGAAATACTTTTATCTGGTCCGCTATGGGATGCCTGCACTCATTGTGGCTGTGTGAGCTGCAGTAGACTACAGGA
GTTATGGAACAGATAAAGTATGTTGGCTCCGACTTGACACCTACTTCATTGGAGTTTTATAGGACCAGCAACTT

FIGURE 847B

IGATAATTATGCTTAATGTAATCTTCCTTGGGATTGCTTTATATAAAATGTTTCATCATACTGCTATGCTGAAAC
CTGAATCAGGCTGTCTTGATAACATCAACTATGAGGATAACAGACCCTTCATCAAGTCATGGGTTATAGGTGCAA
TAGCTCTTCTCTGCCTATTAGGATTGACCTGGGCCTTTGGACTCATGTATATTAATGAAAGCACAGTCATCATGG
CCTATCTCTTACCATTTCATTCTCTACAGGGAATGTTTATATTTATTTTCCATTGTGTCTACAGAAGAAGG
TACGAAAAGAGTATGGGAAATGCCTGCGAACACATTGCTGTAGTGGCAAAGTACAGAGAGTTCCATTGGTTCAG
GGAAAAACATCTGGTTCTCGAACTCCTGGACGCTACTCCACAGGCTCACAGAGCCGAATCCGTAGAATGTGGAATG
ACACGGTTCGAAAGCAGTCAGAGTCTTCTTTTACTGAGACATAAACAGTTCAGCGCTCACTCAACAGAGAGC
CCTACAGAGAGACAAGTATGGGAGTAAAGCTAAACATTGCATATCAAATAGGGGCTTCTGAACAATGCCAGGGAT
ACAAGTGTCTATGGATACTCTACCACTGAATGGTAAACCATGGCAATAGTTACAGCATTGCCAGCGCGCAATACCTG
AGCAACTGTGTGCAAATCATAGACCGTGGCTATAACCATAACGAGACCGCCCTAGAGAAAAAGATTCTGAAGGAA
CTCACTCCCACTATATCCCTTCTTACCTGAACAACCATGAGCGCTCCAGTGAACAGAACAGGAATCTGATGAAC
AAGCTGGTGAATAACCTTGGCAGTGGAAAGGGAAGATGATGCCATTGTCTGGATGATGCCACCTCGTTTAAACCAC
GAGGAGAGTTTGGGCCTGGAACCTATTATGAGGAATCTGATGCTCCTTTGCTGCCCCCAAGAGTATACTCCACC
GAGAACCACCAGCCACACCATTATACCAGAAGGCGGATCCCCCAAGACCACAGTGAGAGCTTTTTTCCCTTTTGCTA
ACCAACGAGCACACAGAAGATCTCCAGTCACCCCATAGAGACTCTCTCTATACCAGCATGCCGACACTGGCTGGT
GTGGCCGCCACAGAGAGTGTTACCACCAGCACCCAGACCGAACCACCACCGGCCAAATGTGGTGATGCCGAAGAT
GTTTACTACAAAAGCATGCCAAACCTAGGCTCCAGAAACCACGTCCATCAGCTGCATACTTACTACCAGCTAGGT
CGCGGCAGCAGTGATGGATTATAGTTTCTCCAAACAAAGATGGGACCCCTCCCGAGGGGAAGTTCAAAAGGACCG
GCTCATTGGTCACTAGTCTATAGAAGATGACACAGAAATTGGAACCAACAAAACCTGCTAACACCTTGTGACTG
TTCTGAGTTGATATAAGCAGTGGTAATAATGTGTGTACTCCTAAATCTTTATGCTGTCTCTAAAGACAAACACA
AACTCTCAGACTTTTTTTTTTTTTTAAATGGGATTTTTAGGTTCAGCCAGGGGAGAAAGATAAACTGCTAAAAATCCCC
TGTAACCCATCCTTTTCTGTCTTTTCCCTTCAGATGGAGACTTCATTATGTTAATGAACAAGATATGAAGAAAA
TGGCACTCATTGTGGCCTTGTGTAATTATGTTGTGTATGTTTTAACATCTCTGATGCTGTGTTACTAAAAATTACA
AGGACCTGCTTTTTTAAAGGCCAGAACAAATTGCTGAAATTAGTAACAATGCTGCATCTAGATTGGAGTGCTGCA
CAAACAAAACATAAGAGCAAAGCAAAACCTGTATCACAATAGGGTTTTTGGTCACTCACAACTGAATTCACCACAGC
TGGAATAGCTGTGGAACCAACAAATAAAAACAACAAATTAATAATGAAATGGAGGGGAATTCTAGAATTATATGCT
AAATGCATATTTTATGATTTGCTGTATTAACTGATGATAAACTAAATGGCAGAAAAAGAAAGTTGAGCAATTTCTA
TGTAATGTACAGATACTAGCATTGCACATATAGTCTGCTTTCTGTTTCTCCAGAATTTGAGTCTGTTAATGTAG
TAGAAAAAAAAAAAAAGAAATTTTCTTTTTCTTTTGTGCTGGTCTTGCAAGTTTGTCTACCAGTAAGAGAGCAAAG
TTTCTTCTTTCTTCTCTTTCTTCTTTCTTTTTTCTTTTTTCTTTTTTGCCTTTTATTCCTTTAAAAATTCGCCTGGC
AAAAATAAATAAATGGAACATCACTTTATAAGAAATCATTTTCTAGTAATGCAACAAATATTTTTTACAAAA
AAACAAAAATAAATAAATTAGACTTCCCTCCCTCACTATATATCTTTATGCAGTCAGAATATTTCCAACAGTGTT
TTTTGCAAAATTAGAGCAGGACAAACCTTTTATGTTTACAGGGCACGTCTGTTGTAATGCAAGCATATTTGGCAAG
CAGTTCATCACCAGGACACTAGCTATGATTCTAGAAGTCAAAAGGTGTCTATAGAAGTCTAGTGGGGCTTCTGCATG
TGAAAAACGGTTTTCCATAGGCATTAAAGTGCTGAATGCTCAGTCTGATCAACAAGTGGGCACCTGCCTACCAC
TTTTTAGAGGAAATTCACCTCCCTCGTAAGCATTTGGAAGGTCAAAATATTTTGAAGTGATTTTTTTTTAAAAAAG
TCTTCTGTTTATTAACAGGAAAAATTTATTTATTTGACAGGATTTTGAGTAATGTAGGAATACAAAGGTAAATTA
GCAGCACATATAATTTTTTTTTTAAATTTATGATCCATTTGTATGGTCTCAAAGTTGGATGACCTCATTACTAATA
TTTGTGTAAAAAGTGAAACTTGTTTGCCAACCAATAAACAACTGATTGAGATTTAGAAGATATTGTAAAAA
AAAAA

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FIGURE 848

MWFSQLLIFMMLLAPIIHAFSRAPIPMAVVRRELSCESYPIELRCPGTDVIMIESANYGRDDKICDSQPAQME
IRCYLPDAYKIMSQRCCNNRTQCAVVAGPDVFPDPCPGTYKYLEVQYECVPYKVEQKVFLCPGLLKGVYQSEHLFE
SDHQSGAWCKDPLQASDKIYYMPWTPYRTDTLLEYSSKDDFIAGRPTTTYKLPHRVDGTGFVVYDGAFFNKERT
RNIVKFDLRTRIKSGEAIIANANYHDTSPYRWGGKSDIDLAVDENGWVIYATEQNNGKIVISQLNPYTLRIEGT
WDTAYDKRSASNAFMICGILYVVKSVYEDDDNEATGNKIDYIYNTDQSKDSLVDVFPFNSYQYIAAVDYNPRDNL
LYVWNNYHVVKYSLDFGLDSRSGQAHHGQVSYISPPIHLDSELERPSVKDISTTGPLGMGSTTTSTTLRTTTLS
PGRSTTPSVSGRRNRSTSTPSPAVEVLDDMTTHLPSASSQIPALEESCEAVEAREIMWFKTRQGQIAKQPCPAGT
IGVSTYLCLAPDGIWDPQGPDLSCSSPWVNHITQKLKSGETAANIARELAEQTRNHLNAGDITYSVRAMDQLVG
LLDVQLRNLTPGGKDSAARSLNKLQKRERSCRAYVQAMVETVNNLLQPQALNAWRDLTTSDQLRAATMLLHTVEE
SAFVLADNLLKTDIVRENTDNIKLEVARLSTEGNLEDLKFPENMGHGSTIQLSANTLKQNGRNGEIRVAFVLYNN
LGPYLSTENASMKLGTEALSTNHSVIVNSPVITAAINKEFSNKVYLADPVVFTVKHIKQSEENFNPNCSFWSYSK
RMTGYWSTQGCRLLTTNKTHHTCSCNHLTNFAVLMAHVEVKHSDAVHDLDDVITWVGILLSLVCLLICIFTFC
FFRGLQSDRNTIHKNLCSLFAELLFLIGINRTDQPIACAVFAALLHFFFLAAFTWMFLEGVQLYIMLVEVFES
EHSRRKYFYLVGYGMPALIVAVSAAVDYRSYGTDKVCWLRLDTYFIWSFIGPATLIIMLNVI FLGIALYKMFHHT
AILKPESGCLDNINYEDNRPFIKSWVIGAIALLCLLGLTWAFGLMYINESTVIMAYLFTIFNSLQGMFIFIFHCV
LQKKVRKEYGKCLRTHCCSGKSTESSIGSGKTSGSRTPGRYSTGSQSRIRRMWNDTVRKQSESSFITGDINSSAS
LNREPYRETSMGVKLNIA YQIGASEQCQGYKCHGYSTTEW

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FIGURE 849

GAATTCGGGACAGGACGTGAAGATAGTTGGGTTTGGAGGCGGCCGCCAGGCCAGGCCCGGTGGACCTGCCGCCA
TGCAGGACGGTAACCTTCCTGCTGTCGGCCCTGCAGCCTGAGGCCGGCGTGTGCTCCCTGGCGCTGCCCTCTGACC
TGCAGCTGGACCGCCGGGGCGCCGAGGGGCGGAGGCCGAGCGGCTGCGGGCAGCCCGCTCCAGGAGCAGGTCC
GCGCCCGCTCTTGCAGCTGGGACAGCAGCCGCGGCACAACGGGGCCGCTGAGCCCAGCCTGAGGGCCGAGACTG
CCAGAGGCACATCCAGGGGGCAGTACCACACCCTGCAGGCTGGCTTCAGCTCTCGCTCTCAGGGCCTGAGTGGGG
ACAAGACCTCGGGCTTCGGCCCCATCGCCAAGCCGGCCTACAGCCCAGCCTCCTGGTCCTCCCGCTCCGCCGTGG
ATCTGAGCTGCAGTCGGAGGCTGAGTTCAGCCCACAATGGGGGCAGCGCCTTTGGGGCCGCTGGGTACGGGGGTG
CCCAGCCCACCCCTCCCATGCCCACCAGGGCCGTGTCTTCCATGAGCGCGGTGGGGTTGGGAGCCGGGCGGACT
ATGACACACTCTCCCTGCGCTCGCTGCGGCTGGGGCCCGGGGGCCTGGACGACCGCTACAGCCTGGTGTCTGAGC
AGCTGGAGCCCGCGGCCACCTCCACCTACAGGGCCTTTGCGTACGAGCGCCAGGCCAGCTCCAGCTCCAGCCGGG
CAGGGGGGCTGGACTGGCCCGAGGCCACTGAGGTTTCCCGAGCCGGACCATCCGTGCCCTGCCGTGCGGACCC
TGCAGCGATTCCAGAGCAGCCACCGGAGCCGCGGGGTAGGCGGGGCAGTGCCGGGGGCGCTCCTGGAGCCAGTGG
CTCGAGCGCCATCTGTGCGCAGCCTCAGCCTCAGCCTGGCTGACTCGGGCCACCTGCCGGACGTGCATGGGTTCA
ACAGCTACGGTAGCCACCGAACCTTCAGAGACTCAGCAGCGGTTTTGATGACATTGACCTGCCCTCAGCAGTCA
AGTACCTCATGGCTTCAGACCCCCAACCTGCAGGTGCTGGGAGCGGCCTACATCCAGCACAAGTGCTACAGCGATG
CAGCCGCCAAGAAGCAGGCCCGCAGCCTTCAGGCCGTGCCTAGGCTGGTGAAGCTCTTCAACCACGCCAACCCAGG
AAGTGCAGCGCCATGCCACAGGTGCCATGCGCAACCTCATCTACGACAACGCTGACAACAAGCTGGCCCTGGTGG
AGGAGAACGGGATCTTCGAGCTGCTGCGGACACTGCGGGAGCAGGATGATGAGCTTCGCAAAAATGTCACAGGGA
TCCTGTGGAACCTTTTCATCCAGCGACCACCTGAAGGACCGCCTGGCCAGAGACACGCTGGAGCAGCTCACGGACC
TGGTGTGAGACCCCTGTCGGGGGCTGGGGGTCCCCCCTCATCCAGCAGAACGCCTCGGAGGCGGAGATCTTCT
ACAACGCCACCGGCTTCCTCAGGAACCTCAGCTCAGCCTCTCAGGCCACTCGCCAGAAGATGCGGGAGTGCCACG
GGCTGGTGGACGCCCTGGTCACTCTATCAACCACGCCCTGGACGCGGGCAAATGCGAGGACAAGAGCGTGAGGA
ACGCGGTGTGCTCTGCGGAACCTGTCTACCGCCTCTACGACGAGATGCCGCCGTCCGCGCTGCAGCGGCTGG
AGGGTTCGCGGCCGAGGGACCTGGCGGGGGCGCCGCCGGGAGAGGTGCTGGGCTGCTTCACGCCGAGAGCCGGC
GGCTGCGCGAGCTGCCCCCTCGCCGCCGATGCGCTCACCTTCGCGGAGGTGTCCAAGGACCCCCAAGGGCCTCGAGT
GGCTGTGGAGCCCCCAGATCGTGGGGCTGTACAACCGGCTGCTGCAGCGCTGCGAGCTCAACCGGCACACGACGG
AGGCGGCCGCGGGGGCGCTGCAGAACATCACGGCAGGCGACCGCAGGTGGGCGGGGGTGTGAGCCGCCTGGCCC
TGGAGCAGGAGCGTATTCTGAACCCCTGCTAGACCGTGTGAGGACCGCCGACCACCACCACTGCGCTCACTGA
CTGGCCTCATCCGAAACCTGTCTCGGAACGCTAGGAACAAGGACGAGATGTCCACGAAGGTGGTGGAGCCACCTGA
TCGAGAAGCTGCCAGGCAGCGTGGGTGAGAAGTCGCCCCCAGCCGAGGTGCTGGTCAACATCATAGCTGTGCTCA
ACAACCTGGTGGTGGCCAGCCCCATCGCTGCCCCGAGACCTGCTGTATTTTGACGGACTCCGAAAGCTCATCTTCA
TCAAGAAGAAGCGGGACAGCCCCGACAGTGAGAAGTCTCCCGGGCAGCATCCAGCCTCCTGGCCAACCTGTGGC
AGTACAACAAGCTCCACCGTGACTTTCGGGCGAAGGGCTATCGGAAGGAGGACTTCCTGGGCCCCATAGCTGAAGC
CTTCTGGAGGAGAAGGTGACGTGGCCCAGCGTCCAAGGGACAGACTCAGCTCCAGGCTGCTTGGCAGCCCAGCCT
GGAGGAGAAGGCTAATGACGGAGGGGCCCCCTCGCTGGGGCCCCCTGTGTGCATCTTTGAGGGTCTGGGGCCACCAG
GAGGGGCAGGGTCTTATAGCTGGGGACTTGGCTTCGCGAGGGCAGGGGGTGGGGCAGGGCTCAAGGCTGCTCTGG
TGTATGGGGTGGTGACCCAGTCACATTGGCAGAGGTGGGGGTGGCTGTGGCCTGGCAGTATCTTGGGATAGCCA
GCACTGGGAATAAAGATGGCCATGAACAGTCACAAAAAAAAAAAAAAAAAGGAATTC

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FIGURE 850

MQDGNFLLSALQPEAGVCSLALPSDLQLDRRGAEQPEAERLRAARVQEQVRARLLQLGQQPRHNGAAEPEPEAET
ARGTSRGQYHTLQAGFSSRSQGLSGDKTSGFRPIAKPAYSPASWSSRSAVDLSCSRRLSSAHNGGSAFGAAGYGG
AQPTPPMPTRPVSFHERGGVGSRADYDTLSLRSLRLGPGGLDDRYSLVSEQLEPAATSTYRAFAYERQASSSSSR
AGGLDWPEATEVSPSRTIRAPAVRTLQRFQSSHRSGVGGAVPGAVLEPVARAPSVRSLSLSLADSGHLDPDVHGF
NSYGSHRTLQRLSSGFDDIDLPSAVKYLMASDPNLQVLGAAYIQHKCYSDAAAKQARSLQAVPRLVKLFNHNQ
EVQRHATGAMRNLIYDNADNKLALVEENGIFELLRTLREQDDELKKNVTGILWNLSSSDHLKDRLARDTLEQLTD
LVLSPLSGAGGPPLIQNASEAEIFYNATGFLRNLSASQATRQKMRECHGLVDALVTSINHALDAGKCEDKSVE
NAVCVLRNLSYRLYDEMPPSALQRLRGRGRRDLAGAPPGEVVGCFTPQSRRLRELPLAADALTFAEVSKDPKGLE
WLWSPQIVGLYNRLQRCENRHTTEAAAGALQNITAGDRRWAGVLSRLALEQERILNPLLDRTADHHQLRSL
TGLIRNLSRNARNKDEMSTKVVSHLIEKLPGSVGEKSPPAEVLVNIIVLNNLVVASPIAARDLLYFDGLRKLIF
IKKKRDSPDSEKSSRAASSLLANLWQYNKLHRDFRAKGYRKEDFLGP

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FIGURE 851A

ATGATTGTCAAAAATTCTGTGTGGTTTTGTACATTGGGAATTTATTTATGTGATAACTGCGTTTAACTTGTCATATCCAATTACTCCTTGGAGATTTAAGTTGTCTTGCATGCCACCAAATTC AACCTATGACTACTTCTTTTGCCTGCTGGACTCTCAAAGAATACTTCAAATTCGAATGGACATTATGAGACAGCTGTTGAACCTAAGTTTAAATCAAGTGGTACTCACTTTTCTAACTTATCCAAAACAACCTTTCCACTGTTGCTTTCGGAGTGAGCAAGATAGAACTGCTCCTTATGTGCAGACAACATTGAAGGAAAGACATTTGTTTCAACAGTAAATTCCTTTAGTTTTTCAACAAATAGATGCAAACTGGAACATACAGTGCTGGCTAAAAGGAGACTTAAATTTATTCATCTGTTATGTGGAGTCATTATTTAAGAATCTATT CAGGAATTATAACTATAAGGTCCATCTTTTATATGTTCTGCCTGAAGTGTTAGAAGATTCACCTCTGGTCCCCAAAAGGCAGTTTTTCAGATGGTTCAGTGCAATTGCAGTGTTTCAATGAATGTTGTGAATGCTTGTGCCTGTGCCAACAGCCAACTCAACGACACTCTCCTTATGTGTTTGAAAAATCACATCTGGTGGAGTAATTTTCCAGTCACCTCTAATGT CAGTTCAGCCATAAATATGGTGAAGCCTGATCCACCATTAGGTTTGCATATGGAAATCACAGATGATGGTAATTTAAAGATTTCTTGGTCCAGCCACCATTGGTACCATTTCACCTTCAATATCAAGTGAAATATTCAGAG AATTCTACAACAGTTATCAGAGAAGCTGACAAGATTGTCTCAGCTACATCCCTGCTAGTAGACAGTATACTTCCTGGGTCTTCGTATGAGGTT CAGGTGAGGGGCAAGAGACTGGATGGCCAGGAATCTGGAGTGACTGGAGTACTCCTCGTGTCTTTACCACACAAGATGTCATATACTTTCCACCTAAAAATCTGACAAGTGTTGGGTCTAATGTTTCTTTT CACTGCATCTATAAGAAGGAAAACAAGATTGTTCCCTCAAAGAGATTGTTTGGTGGATGAATTTAGCTGAGAAAATTCTCTCAAAGCCAGTATGATGTTGTGAGTGATCATGTTAGCAAAGTTACTTTTTTCAATCTGAATGAAACCAAA CCTCGAGGAAAGTTTTACCTATGATGCAGTGTACTGCTGCAATGAACATGAATGCCATCATCGCTATGCTGAATTA TATGTGATTGATGTCAATATCAATATCTCATGTGAAACTGATGGGTACTTAACTAAAATGACTTGCAGATGGTCA ACCAGTACAATCCAGTCACTTGCGGAAAGCACTTTGCAATTGAGGTATCATAGGAGCAGCCTTTACTGTTCTGAT ATTCCATCTATTCAATCCATATCTGAGCCCAAAGATTGCTATTTGCAGAGTGATGGTTTTTATGAATGCATTTTC CAGCCAATCTTCTATTATCTGGCTACACAATGTGGATTAGGATCAATCACTCTCTAGGTTCACTTGACTCTCCA CCAACATGTGTCTTCTCTGATTCTGTGGTGAAGCCACTGCCTCCATCCAGTGTGAAAGCAGAAATTACTATAAAC ATTGGATTATTGAAAATATCTTGGGAAAAGCCAGTCTTTCCAGAGAATAACCTTCAATTCCAGATTCGCTATGGT TTAAGTGGAAGAAGTACAATGGAAGATGTATGAGGTTTATGATGCAAAATCAAATCTGTCACTCTCCAGTT CCAGACTTGTGTGCAGTCTATGCTGTT CAGGTGCGCTGTAAGAGGCTAGATGGACTGGGATATTGGAGTAATTGG AGCAATCCAGCCTACACAGTTGTCTATGGATATAAAAAGTTCCATGAGAGGACCTGAATTTTGGAGAATAATTAAT GGAGATACTATGAAAAAGGAGAAAAATGTCACTTTACTTTGGAAGCCCCCTGATGAAAAATGACTCATTGTGCAGT GTTCAGAGATATGTGATAAACCATCATACTTCTCTGCAATGGAACATGGT CAGAAGATGTGGGAAATCACACGAAA TTCCTTTCTGTGGACAGAGCAAGCACATACTGTTACGGTTCTGGCCATCAATTCAATTGGTGTCTTCTGTTGCA AATTTTAATTTAACCTTTTTCATGGCCTATGAGCAAAAGTAAATATCGTGCAGTCACTCAGTGCTTATCCTTTAAAC AGCAGTTGTGTGATTGTTTTCTGGATACTATCACCCAGTGATTACAAGCTAATGTATTTTATTATTGAGTGGAAA AATCTTAATGAAGATGGTGAATAAAATGGCTTAGAATCTCTTCATCTGTTAAGAAGTATTATATCCATGATCAT TTTATCCCCATTGAGAAGTACCAGTTCAGTCTTTACCCAATATTTATGGAAGGAGTGGGAAAACCAAAGATAATT AATAGTTTCACTCAAGATGATATTGAAAAACACCAGAGTGATGCAGGTTTATATGTAATTGTGCCAGTAATTATT TCCTCTTCCATCTTATTGCTTGGAAACATTATTAATATCACACCAAAGAATGAAAAAGCTATTTTGGGAAGATGTT CCGAACCCCAAGAATTGTTCTGGGCACAAGGACTTAATTTTCAGAAGAGAACGGACATTCTTTTGAAGTCTAATC ATGATCACTACAGATGAACCCAATGTGCCAACTTCCCAACAGTCTATAGAGTATTAGAAGATTTTACATTTTGA AGAAGGGGAGCAAATCTAAAAAAATTCAGTTGAACTTCTGAGAGTTAACATATGGTGGATTATGTTGATTTAGA ACTTAAAAATAGATGTGTAAATTTGGGTTCAAATGTAGATTTGAGTCCAGTTTGGATGTGTGATTAATTTTCAA TCATCTAAAGTTTTAAAGTAGTATTCATGATTTCTGGCTTTTGATTTGTCAATTTCTGGTCAATAAACATTAAG AAAATTATGGCTGTTGCTGTCAATTACATATCTATTAAATGTCATCAAATATGTAGTAGACAATGCTGTAATTAGG TGAACCTCTAAAAC TGCAACATCTGACAAATAGCTTTAAAAATACAATGATTATAAGTATGGAATCAGTGAAAATA TTTAGTTTGTATTTTTATGTCCAAACTTTTCCATTTTAGATTCTTTTATAGACACGTCAGCCTAAAAATCAGCCT ATTCGGGTGTTCTTTTGAATATCTCCTGGCATTTTGTATCTAACTTTGTTCAATCTGGGAATTT CAGTTTTCAA TATCCTTGAAAATGGCTTAAGTGATAACTTCCGTTT CAGTTAAAAGGAAGCCGAAGTTGTGTTTGTGCTGCCA CAGGACAGTGGGAGTTACAGTTTATATCAGGATGACCCTACATACCCAGGT CAGATTGACGGGACCAGAAGGGAA CATCGACTTCTAATCCAGCTTTCTTGTTTAAATTATGACCTAAATCTAATTTACTTCCACTGAACCATCCAAGACC TCTGGCAGGCAGGGAAATGGGCAGTGATGCAAAAAAGGGAGACTCTTTGGAGCTTTTATGAATAGTTCATGGTGA

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FIGURE 851B

GGACAGAACTTTTCTACTTTCAGACAGACTGCTTGCTAGTTTTATGAATTCAGCACACGAATTATGCTGCGTTGC
TCACATTCAAACCAAACCAACGACTATGTTTAATGAACTCAGTATTCAAATTTATTATATATGCGTATATATGTA
TATATGGATCCCTTATATTTAGATTTAACTCGTAGTTTTATTTGAAAGTAGAAAAGAACTCTACAAAAACGGGAA
GAATGTGTCTTTCTTCCCTTCTTGACTTCTAATAGGTGTCATTGAAATGTAAATCTAAGTATGAAATTATGAAA
GGACATTCTTTAATTACTGCCCACTCAACACATATTTAATATGTGCCCAGATTATTCTAAAAATCTTAAAAAAGA
TGCATATAGTGAAATTTTTTAAATGGATATACTTTTTAATAAAGTTTTATAACTCACTGACAAAACATATTTCAAT
AGTATATGAGTATGAGATTTCTTATCAATTATGAGTGAAATATTCTATCTGAATGCATTGGAAGGCATTTACAGT
ATTTGCTTTCAACAGTTACTGAGTATGACATTTTAGCATGAAATATATCAAACACATCATTGGAAGGACATATGT
AATCTTGACTATGGTTATGGTTTTTTTTGTATGTTATTCCTTGTTTTTCATATTGATAGCATCTAATTCCTTTTGACAA
TCTTAATATGTAGGTTTCATTTAAATTTTTAAGACAGTTCAGTGCATATATAGTAGAAGCCTTAAGAAAAAAGAAAA
TGAGCAAGCAAAATATTTGAAGAAATGTATAAAACCATAGATTTCTTTCAGAAAAAAGAACAGGCATAGGAACAG
TTTTCTCTTCATATATTATGATTATGAATAATAGGAAAGTTGTATTAATTCAGTATTTGTCATTATGCAGTATTT
TAATACCTACATAAGTCTATTCCATTATTATATTTTTGCGCTTGGCATATTTATTCCTTTATGCTTTTAATCACTA
ACATATTTTACTTAAGAGTATAAACTATGCTAAATAAATTGTATTGTATATGGAATATGCTTGCCATTATGAAG
AACAGCTGGGTATACCATTTATTTCAAGTAATAAATCTGAATTCATTAGTTTAAAAATGTAAAATTCAAGTTAA
ATGACGTGTATGATATATAAGCTGAACACATTTTCTATAGCCCTTAATTTAGTTGTGTTAATTTTTCAAGGTGAT
GTATCAACAGCTTTTTTTTTTGCATTTGTTTTTCAATGTGTTTACATTGTATGAATTGAGCTTTTTGCCACA
GATTCCTGATTTGTAGTTGTTTGGCAGGATTTTCTTTGTGATATAATCACTTCTATAAAAAATATGATGTACAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 852

MICQKFCVLLHWEFIYVITAFNLSYPITPWRFKLSMPPNSTYDYFLLPAGLSKNTSNSNGHYETAVEPKFNSS
GTHFSNLSKTTFHCCFRSEQDRNCSLCADNIEGKTFVSTVNSLVFQQIDANWNIQCWLKGDCLKFICYVESLFKN
LFRNYNYKVHLLYVLPEVLEDSPLVPQKGSFQMVHCNCSVHECCECLVPVPTAKLNDTLLMCLKITSGGVIFQSP
LMSVQFINMVKPDPPPLGLHMEITDDGNLKISWSSPPLVPFPLQYQVKYSENSTTVIREADKIVSATSLLVDSILP
GSSYEVQVRGKRLDGPGIWSDWSTPRVFTTQDVIYFPPKILTSVGSNVSFHCIYKKENKIVPSKEIVWWWNLAEK
IPQSQYDVVSDHVSKVTFFNLNETKPRGKFTYDAVYCCNEHECHRYAELYVIDVNINISCETDGYLTGMTCRWS
TSTIQSLAESTLQLRYHRSSLYCSDIPSIHPISEPKDCYLOSDGFYECIFQPIFLLSGYTMWIRINHSLGSLDSP
PTCVLPDSVVKPLPPSSVKAETITINIGLLKISWEKPVFPENNLOFQIRYGLSGKEVQWKMYEVYDAKSKSVSLPV
PDLCAVYAVQVRCKRLDGLGYWSNWSNPAYTVVMDIKVPMRGPEFWRIINGDTMKKEKNVTLLWKPLMKNDLCS
VQRYVINHHTSCNGTWSEDVGNHTKFTFLWTEQAHTVTVLAINSIGASVANFNLTFSWPMSKVNIVQSL SAYPLN
SSCVIVSWILSPSDYKLMYFII EWKNLNEDGEIKWLRISSSVKYYIHDHFIP IEKYQFSLYPIFMEGVGKPKII
NSFTQDDIEKHQSDAGLYVIVPVISSSILLGTLTLLISHQRMKKLFWEDVPNPKNCSWAQGLNFQKRTDIL

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FIGURE 853

CCTGTGAACACTATAGCGCTGAGAGAGACAGTCTGAAAGCAGAGGAAGACATCGATCAGTAACACCAAGAGACAC
CAAAGTTGAAAGTTTTGTTTTCTTTCCCTCTGTTTTATTTTTCCCCCGTGTGTCCCTACTATGTCAGAAAGCCT
GTTGTGTCCACCATCTCCAAAGGAGGTTACCTGCAGGGAAATGTTAACGGGAGGCTGCCTTCCCTGGGCAACAAG
GAGCCACCTGGGCAGGAGAAAGTGCAGCTGAAGAGGAAAGTCACTTTACTGAGGGGAGTCTCCATTATCATTGGC
ACCATCATTGGAGCAGGAATCTTCATCTCTCCTAAGGGCGTGCTCCAGAACACGGGCAGCGTGGGCATGTCTCTG
ACCATCTGGACGGTGTGTGGGGTCTGTCACTATTTGGAGCTTTGTCTTATGCTGAATTGGGAACAACATAAAAG
AAATCTGGAGGTCATTACACATATATTTTGGAAAGTCTTTGGTCCATTACCAGCTTTTGTACGAGTCTGGGTGGAA
CTCCTCATAATACGCCCTGCAGCTACTGCTGTGATATCCCTGGCATTTTGGACGCTACATTCTGGAACCATTTTTT
ATTCAATGTGAAATCCCTGAACTTGCGATCAAGCTCATTACAGCTGTGGGCATAACTGTAGTGATGGTCTCTAAAT
AGCATGAGTGTGAGCTGGAGCGCCCGGATCCAGATTTTCTTAACCTTTTGCAAGCTCACAGCAATTCTGATAATT
ATAGTCCCTGGAGTTATGCAGCTAATTAAAGGTCAAACGCAGAACTTTAAAGACGCCTTTTCAGGAAGAGATTCA
AGTATTACGCGTTGCCACTGGCTTTTTATTATGGAATGTATGCATATGCTGGCTGGTTTTACCTCAACTTTGTT
ACTGAAGAAGTAGAAAAACCCTGAAAAAACCAATCCCCTTGCAATATGTATATCCATGGCCATTGTCACCATTTGGC
TATGTGCTGACAAATGTGGCCTACTTTACGACCATTAATGCTGAGGAGCTGCTGCTTTCAAATGCAGTGGCAGTG
ACCTTTTCTGAGCGGCTACTGGGAAATTTCTCATTAGCAGTTCCGATCTTTGTTGCCCTCTCCTGCTTTGGCTCC
ATGAACGGTGGTGTGTTTGTGTCTCCAGGTTATTCTATGTTGCGTCTCGAGAGGGTCACCTTCCAGAAATCCTC
TCCATGATTCATGTCCGCAAGCACACTCCTCTACCAGCTGTTATTGTTTTGCACCCCTTTGACAATGATAATGCTC
TTCTCTGGAGACCTCGACAGTCTTTTGAATTTCTCAGTTTTGCCAGGTGGCTTTTTATTGGGCTGGCAGTTGCT
GGGCTGATTTATCTTCGATACAAATGCCAGATATGCATCGTCTTTCAAGGTGCCACTGTTTCATCCCAGCTTTG
TTTTCTTCACATGCCTCTTCATGGTTGCCCTTTCCCTCTATTCCGACCCATTTAGTACAGGGATTGGCTTCGTC
ATCACTCTGACTGGAGTCCCTGCGTATTATCTCTTTATTATATGGGACAAGAAACCCAGGTGGTTTAGAATAATG
TCAGGGTTCCCTAGCACTGATGCCTGCACAAGCATGTGATATGTGAATAAAATGGATTCTTCTATAGCTAAATGA
GTTCCCTCTGGGGAGAGTTCTGGTACTGCAATCACAATGCCAGATGGTGTATGGGCTATTTGTGTAAGTAAGT
GGTAAGATGCTATGAAGTAAGTGTGTTTGTGTTTTCATCTTATGGAACTCTTGATGCATGTGCTTTTGTATGGAAT
AAATTTTGGTGCAATATGATGTCACTTTGCATTGAATTGAATTTTGGTTGTATTTATATGTATTATACCT
GTCACGCTTCTAGTTGCTTCAACCATTTTATAACCATTTTGTACATATTTTACTTGAAAATATTTTAAATGGAA
ATTTAAATAAACATTTGATAGTTTACATAATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 854

MVRKPVVSTISKGGYLQGNVNGRLPSLGNKEPPGQEKVQLKRKVTLLRGVSIIGTIIGAGIFISPKGVLQNTGS
VGMSLTIWTVCGVLSLFGALSYAELGTTIKKSGGHYTYILEVFGPLPAFVRVWVELLIIRPAATAVISLAFGRYI
LEPFFIQCEIPELAIKLITAVGITVVMVLNSMSVSWASARIQIFLTFCKLTAILIIIVPGVMQLIKGQTQNFKDAF
SGRDSSITRLPLAFYYGMYAYAGWFYLNFEVTEEVENPEKTIPLAICISMAIVTIGYVLTNVAYFTTINAEELLS
NAVAVTFSERLLGNFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGHLPEILSMIHVRKHTPLPAVIVLHPL
TMIMLFSGDLDSLLNFLSFARWLFIGLAVAGLIYLRKCPDMHRPFKVPLFIPALFSFTCLFMVALSLYSDPFST
GIGFVITLTGVPAYYLFIIWDKKPRWFRIMSGFLALMPAQACDM

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FIGURE 855

CCGGCACGAGAGGAGTTGTGAGTTTCCAAGCCCCAGCTCACTCTGACCACTTCTCTGCCTGCCCAGCATCATGAA
GGGCTTGCAGCTGCCCTCCTTGTCTCGTCTGCACCATGGCCCTCTGCTCCTGTGCACAAGTTGGTACCAACAA
AGAGCTCTGCTGCCTCGTCTATACCTCCTGGCAGATTCCACAAAAGTTCATAGTTGACTATTCTGAAACCAGCCC
CCAGTGCCCCAAGCCAGGTGTCATCCTCCTAACCAAGAGAGGCCGGCAGATCTGTGCTGACCCCAATAAGAAGTG
GGTCCAGAAATACATCAGCGACCTGAAGCTGAATGCCTGAGGGGGCCTGGAAGCTGCGAGGGCCCAGTGAACCTGG
TGGGCCCAGGAGGGAACAGGAGCCTGAGCCAGGGCAATGGCCCTGCCACCCTGGAGGCCACCTCTTCTAAGAGTC
CCATCTGCTATGCCCAGCCACATTAACCTAATCTTAGTTTATGCATCATATTTTCAATTTGAAATTGATTT
CTATTGTTGAGCTGCATTATGAAATTAGTATTTTCTCTGACATCTCATGACATTGTCTTTATCATCCTTTCCCCT
TTCCCTTCAACTCTTCGTACATTCAATGCATGGATCAATCAGTGTGATTAGCTTTCTCAGCAGACATTGTGCCAT
ATGTATCAAATGACAAATCTTTATTGAATGGTTTTGCTCAGCACCACCTTTTAATATATTGGCAGTACTTATTAT
ATAAAAGGTAAACCAGCATTCTCACTGTGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 856

MKGLAAALLVLVCTMALCSAQVG¹TN²KELCCLVYTSWQIPQKFIVDYSETSPQCPKPGVILLTKRGRQICADPNK
KWVQKYISDLKLN³A

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FIGURE 857

GGCACGAGGTCGCTTTCTGCGCAGAGTCTGCGGAGGGGCTCGGCTGCACCGGGGGATCGCGCTTGGCAGACCC
CAGACCGAGCAGAGGCGACCCAGCGCGCTCGGGAGAGGCTGCACCGCCGCGCCCCCGCTAGCCCTTCCGGATCC
TGCGCGCAGAAAAGTTTTATTGCTGTATGCCATCCTCGAGAGCTGTCTAGGTTAACGTTTCGCACTCTGTGTATA
TAACCTCGACAGTCTTGGCACCTAACGTGCTGTGCGTAGCTGCTCCTTTGGTTGAATCCCCAGGCCCTTGTGGG
GCACAAGGTGGCAGGATGCTCTCAGTGGTACGAACTTCAGCAGCTTGACTCAAAATTCCTGGAGCAGGTTACACAG
CTTTATGATGACAGTTTTCCCATGGAAATCAGACAGTACCTGGCACAGTGGTTAGAAAAGCAAGACTGGGAGCAC
GCTGCCAATGATGTTTTATTGCCACCATCCGTTTTTCATGACCTCCTGTACAGCTGGATGATCAATATAGTCGC
TTTTCTTTGGAGAATAACTTCTTGCTACAGCATAACATAAGGAAAAGCAAGCGTAATCTTCAGGATAATTTTCAG
GAAGACCCAATCCAGATGTCTATGATCATTACAGCTGTCTGAAGGAAGAAAGGAAAATTCTGGAACACGCCAG
AGATTTAATCAGGCTCAGTCGGGGAATATTCAGAGCACAGTGTGTTAGACAAACAGAAAGAGCTTGACAGTAAA
GTCAGAAATGTGAAGGACAAGGTTATGTGTATAGAGCATGAAATCAAGAGCCTGGAAGATTTACAAGATGAATAT
GACTTCAAATGCAAAACCTTGCAAGACAGAGAACACGAGACCAATGGTGTGGCAAAGAGTGATCAGAAACAAGAA
CAGCTGTTACTCAAGAAGATGTATTTAATGCTTGACAATAAGAGAAAGGAAGTAGTTACACAAAATAATAGAGTTG
CTGAATGTCAGTGAACCTTACCCAGAATGCCCTGATTAATGATGAAGTAGTGAGTGGAAGCGGAGACAGCAGAGC
GCCTGTATTGGGGGGCGCCCAATGCTTGCTTGATCAGCTGCAGAACTGGTTTACTATAGTTGCGGAGAGTCTG
CAGCAAGTTCGGCAGCAGCTTAAAAAGTTGGAGGAATTGGAACAGAAATACACCTACGAACATGACCTATCACA
AAAAACAAACAAGTGTTATGGGACCGCACCTTCAGTCTTTTCCAGCAGCTCATTAGAGCTCGTTTTGTGGTGGA
AGACAGCCCTGCATGCCAACGCACCTCAGAGGCCGCTGGTCTTGAAGACAGGGGTCCAGTTTACTGTGAAGTTG
AGACTGTTGGTGAAATTGCAAGAGCTGAATTATAAATTGAAAGTCAAAGTCTTATTTGATAAAGATGTGAATGAG
AGAAATACAGTAAAGGATTTAGGAAGTTCAACATTTGGGCACGCACACAAAAGTGATGAACATGGAGGAGTCC
ACCAATGGCAGTCTGGCGGCTGAATTCGGCACCTGCAATTGAAAGAACAGAAAAATGCTGGCACCAGAACGAAT
GAGGGTCCTCTCATCGTTACTGAAGAGCTTCACTCCCTTAGTTTTGAAACCAATTGTGCCAGCCTGGTTTGGTA
ATTGACCTCGAGACGACCTCTCTGCCCCTTGTGGTGATCTCAACGTCAGCCAGCTCCCGAGCGGTTGGGCCTCC
ATCCTTTGGTACAACATGCTGGTGGCGGAACCCAGGAATCTGTCTTCTTCTGACTCCACCATGTGCACGATGG
GCTCAGCTTTCAGAAGTGCTGAGTTGGCAGTTTTCTTCTGTACCAAAAAGAGGTCTCAATGTGGACCAGCTGAAC
ATGTTGGGAGAGAAGCTTCTTGGTCCTAACGCCAGCCCCGATGGTCTCATTCCGTGGACGAGGTTTTGTAAGGAA
AATATAAATGATAAAAAATTTCCCTTCTGGCTTTGGATTGAAAGCATCCTAGAACTCATTAAAAAACACCTGCTC
CCTCTCTGGAATGATGGGTGCATCATGGGCTTCATCAGCAAGGAGCGAGAGCGTGCCCTGTTGAAGGACCAGCAG
CCGGGGACCTTCTGTGCGGTTCACTGAGAGCTCCCGGAAGGGGCCATCACATTACATGGGTGGAGCGGTCC
CAGAACGGAGGCGAACCTGACTTCCATGCGGTTGAACCTACACGAAGAAAGAACTTTCTGCTGTTACTTTCCCT
GACATCATTGCAATTACAAAGTCATGGCTGCTGAGAATATTCCTGAGAATCCCCTGAAGTATCTGTATCCAAAT
ATTGACAAAGACCATGCCTTTGGAAAGTATTACTCCAGGCCAAAGGAAGCACCAGAGCCAATGGAACCTTGATGGC
CCTAAAGGAAGTGGATATATCAAGACTGAGTTGATTTCTGTGTCTGAAGTGTAAAGTGAACACAGAAGAGTGACAT
GTTTACAAACCTCAAGCCAGCCTTGCTCCTGGCTGGGGCCTGTTGAAGATGCTTGTATTTTACTTTTCCATTGTA
ATTGCTATCGCCATCACAGCTGAACTTGTTGAGATCCCCGTGTTACTGCCTATCAGCATTTTACTACTTTAAAAA
AAAAAAAAAAAAA

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FIGURE 858

MSQWYELQQLD SKFLEQVHQLYDDSFPM EIRQYLAQWLEKQDWEHAANDVSFATIRFHDLLSQLDDQYSRFSLEN
NFLLOHNIRKSKRNLDNFQEDPIQMSMIIYSCLKEERKILENAQRFNQAQSGNIQSTVMLDKQKELDSKVRNVK
DKVMCIEHEIKSLEDLQDEYDFKCKTLQNREHETNGVAKSDQKQEQLLLKKMYLMLDNKRKEVVHKIIELLNVTE
LTQNALINDELVEWKRRQQSACIGGPPNACLDQLQNWFTTIVAESLQQVRQQLKKLEELEQKYTYEHDPITKNKQV
LWDRTFSLFQQLIQSSFVVERQPCMPHPQRPLVLKTGVQFTVKLRLLVKLQELNYNLKVKVLFDKDVNERNTVK
GFRKFNILGHTKVMNMEESTNGSLAAEFRHLQLKEQKNAGTRTNEGPLIVTEELHSLSFETQLCQPGGLVIDLET
TSLPVVVVISNVSQLPSGWASILWYNMLVAEPRNLSFFLTTPPCARWAQLSEVL SWQFSSVTKRGLNVDQLNMLGEK
LLGPNASPDGLIPWTRFCKENINDKNFPFWLWIESILELIKHLPLWNDGCIMGFISKERERALLKDQQPGTFL
LRFSESSREGAITFTWVERSQNGGEPDFHAVEPYTKKELSAVTFPDIIRNYKVMAAENIPENPLKYLYPNIDKDH
AFGKYYSRPKEAPEPEMELDGPKGTGYIKTELISVSEV

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FIGURE 859

GGGCGTCTTGCAATGATGGGGGAGGACTCTGCTGCTTCTTAAGCTCCAGCGTCTCAAGCCAGGGCGAGACAGCCC
GCCGGCCGCCCCGATCTCCACCTGCCACCCAGAGCTGGGACAGCAGCCGGGCTGCGGCACTGGGAGGGAGACCC
CACAGTGGCCTCTTCTGCCACCCACGCCCCACCCCTGGCATGGCCGACCAGCTGACTGAGGAGCAGGTCACAGA
ATTCAAGGAGGCCTTCTCCCTGTTTGACAAGGATGGGGACGGCTGCATCACCACCCGCGAGCTGGGCACGGTCAT
GCGGTCCCTGGGCCAGAACCCACGGAGGCCGAGCTGCGGGACATGATGAGTGAGATCGACCGGGACGGCAACGG
CACCGTGGACTTCCCCGAGTTCCTGGGCATGATGGCCAGGAAGATGAAGGACACGGACAACGAGGAGGAGATCCG
CGAGGCCTTCCGCGTGTTGACAAGGACGGCAACGGCTTCGTAGCGCCGCCGAGCTGCGACACGTCATGACCCG
GCTGGGGGAGAAGCTGAGTGACGAGGAGGTGGACGAGATGATCCGGGCCGCGGACACGGACGGAGACGGACAGGT
GAACTACGAGGAGTTTGTCCGTGTGCTGGTGTCCAAGTGAGGGCCGGCGCCACCATGCTCCTGGGCGCCACGCG
GCCACAGGGCAAGAACCCGGGGCCTCCCGCCTCCTCCCCATCCCCCTGCCTCCCCTGGGCACTGTGGCTTCCT
CCTGCGCCTGGTTGATTGAGCCACCTCTCTGCATCCCGCTTCCCGCTCTCTTCTCTGCACTCCTGCCGACCTT
CCCACCTGCTCATCTGAATGACACGGAACGCTCCCACTGCAGGCAAACCGTGACGCCCTCCCCACTCGGGAGAAG
CAGAGCTGACCTTAGGACCGAGCACCAGGGCAGGTTGCGCTGACTCTGCGGCCCTCCAGGACGGACACCGGGTGA
CCCCCTTAGGGCACCCAGGCAAGATCCCTAAGAGGCACCCAATGCCAGGCCAGGGGGGCTGCAGCCCTCAGCCCC
CGCCAGGATTCCCGCAGGCTCCTGGACTGGAAGCTCCCTCCGCGGTGCGATTCTGGAGGGTGGGAGGCATCTTGG
CCTGCAGTAAGCGGTGCTGACGGGGACTCTGGCCACAGAGGTCAGGCCTCCTGAAAACAGCACTGCCTTCCGCGC
TGCCCCAGCTTGCCCCATTCTTGTCCGCCAACCCACCGTGATTATCTTCTGAAGCTGGGAGTGAACTGGGTC
AGCTGTAACTGTTTCTTATTCATCTGGAAGGAGGGAGGCTTGGATGAGCAGGGGATGAGAGCTGCAGGGAAATAA
ATGAGATATTCGTCCTT

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FIGURE 860

MSEIDRDGNGTVDFPEFLGMMARKMKDTDNEEEIREAFRVFDKDGNGFVSAAELRHVMTRLGEKLSDEEVDEMIR
AADTDGDGQVNYEEFVRVLVSK

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FIGURE 861

GGGAGCAGCTAGGGCGCGGGTCTCCCTCCTCCCGAGTTTGGAACGGCTGAAGTTCACCTTCCAGCCCCTAGCGC
CGTTTCGCGCCGCTAGGCCTGGCTTCTGAGGCGGTTGCGGTGCTCGGTCGCCGCTAGGCGGGCAGGGTGCGAGC
AGGGGCTTCGGGCCACGCTTCTCTTGCGACAGGATTTTGCTGAAGTCCGTCCGGGAAACGGAGGAAAAAAGAG
TTGCGGGAGGCTGTGCGCTAATAACGGTTCTTGATACATATTTGCCAGACTTCAAGATTTTCAGAAAAGGGGTGAA
AGAGAAGATTGCAACTTTGAGTCAGACCTGTAGGCCTGATAGACTGATTAAACCACAGAAGGTGACCTGCTGAGA
AAAGTGGTACAAATACTGGGAAAAACCTGCTCTTCTGCGTTAAGTGGGAGACAATGTCACAAAGTTAAAAGCTCTT
ATTCTATGATGCCCCCTCGGATTTTCATCAATTTTTTCATCCTTGGATGATGAAGGAGATACTCAAAACATAGATT
CATGGTTTGAGGAGAAGGCCAATTTGGAGAATAAGTTACTGGGGAAGAATGGAAGTGGAGGGCTTTTTTCAGGGCA
AAACTCCTTTGAGAAAAGGCTAATCTTCAGCAAGCTATTGTCACACCTTTGAAACCAGTTGACAACACTTACTACA
AAGAGGCAGAAAAAGAAAAATCTTGTGGAACAATCCATTCCGTCAAATGCTTGTCTTCCCTGGAAGTTGAGGCAG
CCATATCAAGAAAACTCCAGCCAGCCTCAGAGAAGATCTCTTAGGCTTTCTGCTCAGAAGGATTTGGAACAGA
AAGAAAAGCATCATGTAAAAATGAAAGCCAAGAGATGTGCCACTCCTGTAATCATCGATGAAATTCTACCTCTA
AGAAAATGAAAGTTTCTAACAACAAAAAGAAGCCAGAGGAAGAAGGCAGTGCTCATCAAGATACTGCTGAAAAGA
ATGCATCTTCCCCAGAGAAAGCCAAGGGTAGACATACTGTGCCTTGTATGCCACCTGCAAAGCAGAAGTTTCTAA
AAAGTACTGAGGAGCAAGAGCTGGAGAAGAGTATGAAAATGCAGCAAGAGGTGGTGGAGATGCGGAAAAAGAATG
AAGAATTCAAGAACTTGCTCTGGCTGGAATAGGGCAACCTGTGAAGAAATCAGTGAGCCAGGTACCAAATCAG
TTGACTTCCACTTCCGCACAGATGAGCGAATCAAACAACATCCTAAGAACCAGGAGGAATATAAGGAAGTGAAC
TTACATCTGAACTACGAAAGCATCCTTCATCTCCTGCCGAGTGACTAAGGGATGTACCATTGTTAAGCCTTTCA
ACCTGTCCCAAGGAAAGAAAAGAACATTTGATGAAACAGTTTCTACATATGTGCCCTTGCACAGCAAGTTGAAG
ACTTCCATAAACGAACCCCTAACAGATATCATTGAGGAGCAAGAAGGATGATATTAACCTGTTACCCTCCAAAT
CTTCTGTGACCAAGATTTGCAGAGACCCACAGACTCCTGTACTGCAAAACAAACACCGTGACGGGCTGTGACCT
GCAAAAGTACAGCAGAGCTGGAGGCTGAGGAGCTCGAGAAATTGCAACAATACAAATTCAAAGCACGTGAACCTG
ATCCCAGAATACTTGAAGGTGGGCCCATCTTGCCCAAGAAACCACCTGTGAAACCACCCACCGAGCCTATTGGCT
TTGATTTGGAATTTGAGAAAAGAAATCCAGGAGCGAGAATCAAAGAAGAAAACAGAGGATGAACACTTTGAATTC
ATTCCAGACCTTGCCCTACTAAGATTTTGGAAGATGTTGTGGGTGTTCTCTGAAAAGAAGGTACTTCCAATCACC
TCCCCAAGTCACCAGCCTTTGCATTGAAGAACAGAATTCGAATGCCACCAAAGAAGATGAGGAAGAGGACGAAC
CGGTAGTGATAAAAGCTCAACCTGTGCCACATTATGGGGTGCCTTTTAAGCCCCAAATCCAGAGGCAAGAACTG
TGGAATATGCCCCTTCTCGTTTGATTCTCGAGACAAAGAACGTGAGTTACAGAAGGAGAAGAAAAATAAAGAAC
TGCAGAAAGGGGAGGTGCCCAAGTTCAAGGCACTTCCCTTGCCCTCATTTTGACACCATTAACTGCCAGAGAAGA
AGGTAAAGAATGTGACCCAGATTGAACCTTTCTGCTTGAGACTGACAGAAGAGGTGCTCTGAAGGCACAGACTT
GGAAGCACCAGCTGGAAGAAGAACTGAGACAGCAGAAAGAAGCAGCTTGTTTTCAAGGCTCGTCCAAACACCGTCA
TCTCTCAGGAGCCCTTTGTTCCCAAGAAAGAGAAGAAATCAGTTGCTGAGGGCCTTTCTGTTTCTCTAGTTTCAGG
AACCTTTTCAGCTGGCTACTGAGAAGAGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAGAATGGCTGAGGTAGAAG
CCCAGAAAGCCCAGCAGTTGGAGGAGGCCAGACTACAGGAGGAAGAGCAGAAAAAAGAGGAGCTGGCCAGGCTAC
GGAGAGAACTGGTGCATAAGGCCAAATCCAATACGCAAGTACCAGGCTCTGGAGATAAAGTCAAGTGACCAGCCTC
TGACTGTGCCTGTATCTCCCAAAATCTCCACTCGATTCCACTGCTAAACTCAGCTGTGAGCTGCGGATACCGCCC
GGCAATGGGACCTGCTCTTAACCTCAAACCTAGGACCGTCTTGCTTTGTCATTGGGCATGGAGAGAACCCATTTT
TCCAGACTTTTACCTACCCGTGCCTGAGAAAGCATACTTGACAACCTGTGGACTCCAGTTTTGTTGAGAATTGTTT
TCTTACATTACTAAGGCTAATAATGAGATGTAACCTCATGAATGTCTCGATTAGACTCCATGTAGTTACTTCCTTT
AAACCATCAGCCGGCCTTTTATATGGGTCTTCACTCTGACTAGAATTTAGTCTCTGTGTCAGCACAGTGTAATCT
CTATTGCTATTGCCCCCTTACGACTCTCACCTCTCCCCACTTTTTTTAAAAATTTTAAACCAGAAAAATAAGATAG
TTAAATCCTAAGATAGAGATTAAAGTCATGGTTTAAATGAGGAACAATCAGTAAATCAGATTCTGTCTCTTCTCT
GCATACCGTGAATTTATAGTTAAGGATCCCTTTGCTGTGAGGGTAGAAAACCTCACCAACTGCACCAGTGAGGAA
GAAGACTGCGTGGATTATGAGGAGCCTCACAGCAGCCACGCAGCAGGCTCTGGGTGGGGCTGCCGTTAAGGCAC
GTTCTTTCTTACTGGTGCTGATAACAACAGGGAACCGTGCAGTGTGCATTTTAAAGACCTGGCCTGGAATAAATA
CGTTTTGTCTTTCCCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 862

MSQVKSSYSYDAPSDFINFSSLDDEGDTQNIDSWFEEKANLENKLLGKNGTGGLFQGKTPLRKANLQQAIVTPLK
PVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQPPRRSLRLSAQKDLEQKEKHHVMMKAKRCATPVI
IDEILPSKKMKVSNKKKPEEEGSAHQDTAEKNASSPEKAKGRHTVPCMPPAKQKFLKSTEEQELEKSMKMQQEV
VEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRTERIKQHPENQEYKEVNFTSELRKHPSSPARVTKG
CTIVKPFNLSQGKKRTFDETVSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSVTKICRDPQTPVLQTK
HRARAVTCKSTAELEAELEKLQQYKFKARELDPRILEGGPILPKKPPVKPPTPIGFDLEIEKRIQERESKKKT
EDEHFEFHSRCPCTKILEDVVGVPKVKVLPITVPKSPAFALKNRIRMPTKEDEEEDEPVVIAQPVPHYGVFPKP
QIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDTINLPEKKVKNVTQIEPFCLETDRR
GALKAQTWKHQLEEEELRQKKEAACFKARPNTVISQEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELE
KRMAEVEAQKAQQLEEARLQEEQKKEELARLRRELHVHKNPIRKYQGLEIKSSDQPLTVFVSPKFFSTRFHC

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FIGURE 863

CGCCGAGATCGGGTGCCCGGGATGAGCCTCATCCGGAAAAAGGGCTTCTACAAGCAGGACGTCAACAAGACCGCC
TGGGAGCTGCCCAAGACCTACGTGTCCCGACGCACGTGCGCAGCGGGGCCTATGGCTCCGTGTGCTCGGCCATC
GACAAGCGGTTCAGGGGAGAAGGTGGCCATCAAGAAGCTGAGCCGACCCTTTCAGTCCGAGATCTTCGCCAAGCGC
GCCTACCGGGAGCTGCTGCTGCTGAAGCACATGCAGCATGAGAACGTCAATTGGGCTCCTGGATGTCTTCACCCCA
GCCTCCTCCCTGCGCAACTTCTATGACTTCTACCTGGTGTATGCCCTTCATGCAGACGGATCTGCAGAAGATCATG
GGGATGGAGTTCAGTGAGGAGAAGATCCAGTACCTGGTGTATCAGATGCTCAAAGGCCTTAAGTACATCCACTCT
GCTGGGGTTCGTGCACAGGGACCTGAAGCCAGGCAACCTGGCTGTGAATGAGGACTGTGAAGTGAAGATTCTGGAT
TTTGGGCTGGCGCGACATGCAGACGCCGAGATGACTGGCTACGTGGTGACCCGCTGGTACCGAGCCCCCGAGGTG
ATCCTCAGCTGGATGCACTACAACCAGACAGTGGATATCTGGTCTGTGGGCTGTATCATGGCAGAGATGCTGACA
GGGAAAACCTCTGTTTCAGGGGGAAAGATTACCTGGACCAGCTGACCCAGATCCTGAAAGTGACCGGGGTGCCTGGC
ACGGAGTTTGTGCAGAAGCTGAACGACAAAGCGGCCAAATCCTACATCCAGTCCCTGCCACAGACCCCCAGGAAG
GATTTCACTCAGCTGTTCCACGGGGCCAGCCCCCAGGCTGCGGACCTGCTGGAGAAGATGCTGGAGCTAGACGTG
GACAAGCGCCTGACGGCCGCGCAGGCCCTCACCCATCCCTTCTTTGAACCCTTCCGGGACCTGAGGAAGAGACG
GAGGCCCAGCAGCCGTTTGATGATTCCTTAGAACACGAGAACTCACAGTGGATGAATGGAAGCAGCACATCTAC
AAGGAGATTGTGAACCTCAGCCCCATTGCCCCGAAGGACTCACGGCGCCGGAGTGGCATGAAGCTGTAGGGACTC
ATCTTGATGGCACCGCCGGCCAGACACTGCCCAAGGACCAGTATTTGTCACTACCAAACCTCAGCCCTTCTTGGA
ATACAGCCTTTCAAGCAGAGGACAGAAGGGTCTTCTCCTTATGTGGGAAATGGGCCTAGTAGATGCAGAATTCA
AAGATGTCGGTTGGGAGAACTAGCTCTGATCCTAACAGGCCACGTTAAACTGCCCCATCTGGAGAATCGCCTGCA
GGTGGGGCCCTTTCTTCCCGCCAGAGTGGGGCTGAGTGGGCGCTGAGCCAGGCCGGGGGCCTATGGCAGTGATG
CTGTGTTGGTTTCTAGGGATGCTCTAACGAATTACCACAAACCTGGTGGATTGAAACAGCAGAACTTGATTCCC
TTACAGTTCTGGAGGCTGGAAATCTGGGATGGAGGTGTTGGCAGGGCTGTGGTCCCTTTGAAGGCTCTGGGGAAG
AATCCTTCTTGGCTCTTTTCTAGCTTGTGGCGGCAGTGGGCAGTCCGTGGCATTCCCCAGCTTATTGCTGCATCA
CTCCAGTCTCTGTCTCTTCTGTTCTCTCCTCTTTTAACAACAGTCATTGGATTTAGGGCCCCACCCTAATCCTGTG
TGATCTTATCTTGATCCTTATTAATTAAACCTGCAAATACTCTAGTTCCAAATAAAAAAAAAAAAAAAAAA

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FIGURE 864

MSLIRKKGFYKQDVNKTAWELPKTYVSPTHVSGAYGSVCSAIDKRSGEKVAIKKLSRPFQSEIFAKRAYRELLL
LKHMQHENVIGLLDVFTPASSLRNFYDFYLVMPFMQTDLQKIMGMEFSEEKIQYLVYQMLKGLKYIHSAGVVHRD
LKPGNLAVNEDCELKILDFGLARHADAEMTGYVVTRWYRAPEVILSWMHYNQTVDIWSVGCIMAEMLTGKTLFRG
KDYLDQLTQILKVTGVPGETEFVQKLNDKAAKSYIQSLPQTTPRKDFTQLFPRASQAADLLEKMLELDVDKRLTAA
QALTHPFFEPFRDPEEETEAQQPFDDSLHEKLTVDEWKQHIYKEIVNFSPIARKDSRRRSGMKL

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FIGURE 865

GGCACGAGGCTGGGACCGGAGTGGGGAGCGCGGCGTGGAGGTGCCACCCGGCGCGGGTGGCGGAGAGATCAGAAAG
CCTCTTCCCAAGCCGAGCCAACCTCAGCGGGGACCCGGGCTCAGGGACGCGGCGGCGGGCGGGCGGCGACTGCAGT
GGCTGGACGATGGCAGCGTCCGCCGGAGCCGGGGCGGTGATTGCAGCCCCAGACAGCCGGCGCTGGCTGTGGTCCG
GTGCTGGCGGCGGCGCTTGGGCTCTTGACAGCTGGAGTATCAGCCTTGGAAAGTATATACGCCAAAAGAAATCTTC
GTGGCAAATGGTACACAAGGGAAGCTGACCTGCAAGTTCAAGTCTACTAGTACGACTGGCGGGTTGACCTCAGTC
TCCTGGAGCTTCCAGCCAGAGGGGGCCGACACTACTGTGTCGTTTTTCCACTACTCCCAAGGGCAAGTGTACCTT
GGGAATTATCCACCATTTAAAGACAGAATCAGCTGGGCTGGAGACCTTGACAAGAAAGATGCATCAATCAACATA
GAAAATATGCAGTTTATACACAATGGCACCTATATCTGTGATGTCAAAAACCTCCTGACATCGTTGTCCAGCCT
GGACACATTAGGCTCTATGTCGTAGAAAAAGAGAATTTGCCTGTGTTTCCAGTTTGGGTAGTGGTGGGCATAGTT
ACTGCTGTGGTCTCTAGGTCTCACTCTGCTCATCAGCATGATTCTGGCTGTCTCTATAGAAGGAAAACTCTAAA
CGGGATTACACTGGCTGCAGTACATCAGAGAGTTTGTCAACAGTTAAGCAGGCTCCTCGGAAGTCCCCCTCCGAC
ACTGAGGGTCTTGTAAAGAGTCTGCCTTCTGGATCTCACCAGGGCCAGTCATATATGCACAGTTAGACCACTCC
GGCGGACATCACAGTGACAAGATTAACAAGTCAGAGTCTGTGGTGTATGCGGATATCCGAAAGAATTAAGAGAAT
ACCTAGAACATATCCTCAGCAAGAAACAAAACCAACTGGACTCTCGTGCAGAAAATGTAGCCCATTACCACATT
TAGCCTTGGAGACCCAGGCAAGGACAAGTACACGTGTACTCACAGAGGGAGAGAAAGATGTGTACAAAGGATATG
TATAAATATTCTATTTAGTCATCCTGATATGAGGAGCCAGTGTTCATGATGAAAAGATGGTATGATTCTACATA
TGTACCCATTGTCTTGCTGTTTTTGTACTTTCTTTTCAGGTCATTTACAATTGGGAGATTTTCAGAAACATTCCTT
TCACCATCATTTAGAAATGGTTTGCCTTAATGGAGACAATAGCAGATCCTGTAGTATTTCCAGTAGACATGGCCT
TTTAATCTAAGGGCTTAAGACTGATTAGTCTTAGCATTACTGTAGTTGGAGGATGGAGATGCTATGATGGAAGC
ATACCCAGGGTGGCCTTTAGCACAGTATCAGTACCATTTATTTGTCTGCCGCTTTTAAAAAATACCCATTGGCTA
TGCCACTTGAAAACAATTTGAGAAGTTTTTTTGAAGTTTTTCTCACTAAAATATGGGGCAATTGTTAGCCTTACA
TGTTGTGTAGACTTACTTTAAGTTTGCACCCTTGAAATGTGTCAATCAATTTCTGGATTCATAATAGCAAGATT
AGCAAAGGATAAATGCCGAAGGTCATTCTGGACACAGTTGGATCAATACTGATTAAAGTAGAAAAATCCAAG
CTTTGCTTGAGAACTTTTGTAACGTGGAGAGTAAAAAGTATCGGTTTTTAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAA

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FIGURE 866

MAASAGAGAVIAAPDSRRWLWSVLAAALGLLTÄGVSALEVYTPKEIFVANGTQGKLTCKFKSTSTTGGLTSVSW
FQPEGADTTVSFFHYSQGQVYLGNYPPFKDRISWAGDLDKKDASINIENMQFIHNGTYICDVKNPPDIVVQPGHI
RLYVVEKENLPVFPVWVVVGIVTAVVLGLTLLISMILAVLYRRKNSKRDTGCTSESLSPVKQAPRKSPDTEG
LVKSLPSGSHQGPVIYAQLDHSGGHHSDKINKSESVVYADIRKN

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FIGURE 867

GGGGGGTGTGTTGGAGAGCCCGGACTGGATGCCCCTAGAACTCCTGTGCTGTGAACAGTGAGAGAGTTTTCTTCAT
TTTGAGGAACCCTAAACACCTATCTTTCCCAAGGCAACCTGTCTGGACTGAGCATTCTCTGACTTGACATAACT
TCCCATCCAGCCAGGAGTCTGCACTCTTCAGTCTTTGCAGGCAGTAGCAGAATCCCATGGTAGCCAGGTGGGTGA
AGGGGAGCGAGGACGTTCTACCTGCCTTGAAGAAGACACCTGACCTGCGGAGTGAGTGACCAGTGTTTCCAGAGC
CTGGCAATGGATGCCATTACATCGGCATGTCCAGCACCCCCCTGGTGAAGCACACTGCTGGGGCTGGGCTCAAG
GCCAACAGACCCCGCGTCATGTCCAAGAGTGGGCACAGCAACGTGAGAATTGACAAAGTGATGGCATATACCTA
CTCTACCTGCAAGACCTGTGGACCACAGTTATCGACATGAAGTGAGATACAAACTCACCTGTTTCGCTGCCACT
TTTGTGATGACCTGGTTCCTTTTTGGAGTCACTACTATGCCATCGCGTTTATTTCATGGGGACTTAGAACCCGGT
GAGCCCATTTCAAATCATACCCCTGCATCATGAAAGTGGACTCTCTACTGGGGCGTTTCTCTTTTCCCTGGAA
TCCAGACAACCATTGGCTATGGAGTCCGTTCCATCACAGAGGAATGTCCTCATGCCATCTTCTGTTGGTTGCT
CAGTTGGTCACTACGACCTTGATTGAGATCTTCATCACCGGAACCTTCCTGGCCAAAATCGCCAGACCCAAAAAG
CGGGCTGAGACCATCAAGTTCAGCCACTGTGCAGTCATACCAAGCAGAATGGGAAGCTGTGCTTGGTGATTGAG
GTAGCCAATATGAGGAAGAGCCTCTTGATTGAGTGCCAGCTCTCTGGCAAGCTCCTGCAGACCCACGTCACCAAG
GAGGGGGAGCGGATTCTCCTCAACCAAGCCACTGTCAAATTCCACGTGGACTCCTCCTCTGAGAGCCCCCTCCTC
ATTCTGCCCATGACATTCTACCATGTGCTGGATGAGACGAGCCCCCTGAGAGACCTCACACCCCAAAACCTAAAG
GAGAAGGAGTTTGAGCTTGTGGTCCCTCCTCAATGCCACTGTGGAATCCACCAGCGCTGTCTGCCAGAGCCGAACA
TCTTATATCCCAGAGGAAATCTACTGGGGTTTTGAGTTTGTGCCTGTGGTATCTCTCTCCAAAAATGGAAAAATAT
GTGGCTGATTTGAGTCAGTTTGAACAGATTTCGGAAGCCAGATTGCACATTTTACTGTGCAGATTCTGAGAAA
CAGCAACTCGAGGAGAAGTACAGGCAGGAGGATCAGAGGGAAGAGAAGTGAAGACACTTTTATTACAACAGAGC
AATGTCTGATCACAGGGGCGCCATCCAGGTTTAACCTGCAAGCTGTTTCCACATCAGAACTCCCTTCAAACACA
AAGATTGCTGTGAAAACGAAAATGTGTAGACGCACTCTCAAAAAGTGCACGGACATACAAAATCAATCTTTTCCT
TTGATCTTGTGGCTAAACCAGCATTCTGTGTTTGAGAGATTTCTGTTAGGTGCTTCGTCTGAAAGTGAAGTCT
CATAATTCAAATTGTATAAAATAAAGCTACATTCTAAGAGCTTGGTGTAGGGCAATTGGAATAATGTCTGTTA
GATAAACAGACATTTAGCAATCCTGACATTAAAAGGAAATGTATTTCTATACAAGATTATTAGCTGTAATACAAG
ATATTTATTTAACCAATGACCTTATGGCTGAGAGTTGAATTGTGGTTCAGTATTCATTGATCTCACTGCTTTAAA
ACATGCTCTTTTTGTTCAGCAGGAAAAATATTATATCTAATTATGTCTATGTGGTAATACCTAAAAAGAGGTAG
AGAGACTCTATGTTACAAAAATATAGTAATTTCAATTTTACCTTTCTTCAGTGGACTGAATTGTATGGAAGGAAA
TTGATCAGATCTGTAATTCACAACTGTGGAAACCTACACAAATGGGGCTGATGCCATTGTTTCTCTATTTTATT
TTATTTATTTTGAATCCACTATCTCTTTCCATTCAAATATTTCCATTCAAATGTGGTTCACAGACCCGCCAC
ATCAGCACCATCCGAGAGCTTATTAGTAATGTGTAGATTCTCATGTCCCAGCCAGACTTACAGAATTGGGGTCTG
TATCTTAACAAGAACCCAGATGATTTGTGTACAAATGAAAGTTCGAAAGCTGTGCTCTGGACAGTGTTCTCAA
GCAACTTTCTGAAGCCGTGTGGAAAACTGACTCTGTGTGGGTCCCGTATCCCTGTGGCATCCAGACCTGGCCTCT
CTTCATTTCAATTATTATTGGCCAATATTTCTTTAGCCATTTCATTTCTTATCTATTAATAATGGCTTGCCCATAA
AGGAACTGCATAGGATTATCCCTGACATTCCAAGAGCAAAATAAAGCTCTTGAGAGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 868

MDAIHIGMSSTPLVKHTAGAGLKANRPRVMSKSGHSNVRIDKVDGIYLLYLQDLWTTVIDMKWRYKLTLFAATFV
MTWFLFGVIYYAIAFIHGDLEPGEPISNHTPCIMKVDSLTAFLFSLESQTTIGYGVRSITEECPHAIFLLVAQL
VITTLIEIFITGTFLAKIARPKKRAETIKFSHCAVITKQNGKLCVIVANMRKSLLIQCQLSGKLLQTHVTKEG
ERILLNQATVKFHVDSSSESPFLILPMTFYHVLDETSPLRDLTPQNLKEKEFELVLLNATVESTSAVCQSRTSY
IPEEIYWGFVFPVVSLSKNGKYVADFSQFEQIRKSPDCTFYCADSEKQQLEEKYRQEDQRERELRLLLLQQSNV

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FIGURE 869

CCGCGGGACGCATGCGCACGGCGGACGGAGGCGAGCCGGCCGGGGCTTCTCCCCGGCCGGCAGGGTGGACGGTG
GGCTCCAGATGGGATCAGAGCGGATGGAGATGCGGAAGCGGCAGATGCCCGCCGCCAGGACACACCAGGCGCCG
CCCCAGGCCAGCCCGGAGCGGGGAGTCGCGGGTCCAACGCATGCTGCTTCTGCTGGTGCTGCTGTTGTAGCTGCT
CGTGTCTCACTGTTAGAAACCAGGAAGATCAGAGGCCACAATAGCTTCCCACGAACTCAGAGCAGATCTTCCAA
CCTGGGAAGAAAGCCCTGCTCCTACTCTGGAAGAAGTCAACGCCTGGGCTCAGTCATTTGACAAATTAATGGTCA
CTCCAGCAGGAAGGAATGCATTCCGTGAATTCTCCGAACAGAATTCAGTGAGGAAAATATGCTCTTCTGGATGG
CCTGTGAGGAACTGAAAAAGGAAGCTAATAAAAAACATTATTGAAGAGAAAGCAAGGATAATCTATGAAGACTACA
TTTCTATACTTTCTCCTAAGGAGGTGAGCTTAGACTCCCGGGTGAGAGAAGTGATCAACAGAAACATGGTGGAGC
CATCCCAACACATATTGATGATGCTCAACTTCAGATTTACACCCTGATGCACAGAGACTCATATCCTCGATTCA
TGAACCTCTGCTGTCTATAAGGACTTGCTTCAGTCCTTATCGGAGAAATCTATTGAAGCATAGGATTTTTCAAATA
TATTTATTATTAATAAAATAATAAAAGAATTCATGGGCTACAACCTAGCACAGGGAATTTAGAGGTTGTAGCATCT
TCTGCTGGAGTAATACTCAGGCTATTCTAATAACAGATGATTCCCTTCAACAGACTGCTATATATTACCATGTAA
ACTGCAGCCACCTTTAGTGATACTTTTAAAAAAAAAAAAATAAAGGGATATGGCTGTTGTAGAAAGATAGCGTATTT
GCATTTACAATAACAGTAGCATGTTGTCAGTGGCCAAGGCTACACAGAAGGCTCCCTGCTGCCCGGAGCAGGTAC
ATCCACAGAGCAAAGGGAACCACTTTTATTTTGCATGAGTTTGGTAACTGATTACTCTCCCCTCAAAGAAAAGAC
ATTCAGGTGTTTCTCAACGACATCTTCTGTCCAGCAAGCTCGGTTTGAATACGTCACCTACCAGTGCCATTGCAG
GACCCAAATTCACAGTTCATAAAAGATGTGACCACTACATGTAAAAATAGCATTCTACTTGATCTTACAGTATGT
ATGTATGTATGTATGGAGACATATGTGTGCGTGTGGATGTCTACATGGTTAATGGAAAGCACTGTGCTCTGAAGT
GGATCAGTCTCAAGTGTCTGGTAACAGCAGCAATGCTTAGAAAATTCTTTTGTGAAAAGAGTTACTGTTATTAT
CAGAATTTGCCAACCTAAAGAATGAATTTTAAATTCATAACTTGGTCATGTTTACAACAAAACCTGTCAAATAAG
CATATTTCCATTTTTATTACTGAAAGAAATATGGGCATTTTCATTCTTTAAAGAAATAAAGCACAGAATTTTAT
CTCAAAAAAAAAAAAAAAAAA

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FIGURE 870

MRTADGGEPAGASSPAGRVDGGLQMGSERMEMRKRQMPAAQDTPGAAPGQPGAGSRGSNACCFWCCCCSCSCLT
VRNQEDQRPTIASHELADLPTWEESPAPTL EEVNAWAQSFDKLMVTPAGRNAFREFLRTEFSEENMLFWMAC EE
LKKEANKNIIEEKARI IYEDYISILSPKEVSLDSRVREVINRNMVEPSQHIFDDAQLQIYTLMHRDSYPRFMNSA
VYKDLLQSLSEKSIEA

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FIGURE 871A

AGACCCGCCGGGCTCCCGCCGCGCGCTGTCCCTGGAGCTCGGGGACGCGGCCCGGAGCCGGGAAGATGGCGAA
GCGGCTCTGCGCGGGGAGCGCACTGTGTGTTGCGGGCCCCCGGGGCCCCGCGCCGCTGCTGCTGGTTCGGGCTGGC
GCTGCTGGGCGCGGCGCGGGGAGGAGGCGGGCGGGCTTCAGCCTGCACCCGCCCTACTTCAACCTGGC
CGAGGGCGCCCCGATCGCCGCCTCCGCGACCTGCGGAGAGGAGGCCCGCGCGCGGCTCCCCGCGCCCCACCGA
GGACCTTTACTGCAAGCTGGTAGGGGGCCCCGTGGCCGCGGGCGACCCCAACCAGACCATCCGGGGCCAGTACTG
TGACATCTGCACGGCTGCCAACAGCAACAAGGCACACCCCGCGAGCAATGCCATCGATGGCACGGAGCGCTGGTG
GCAGAGTCCACCGCTGTCCCGCGGCTGGAGTACAACGAGGTCAACGTCACCCCTGGACCTGGGCCAGGTCTTCCA
CGTGGCCTACGTCTCATCAAGTTTGCCAACCTCACCCCGGCGGACCTCTGGGTGCTGGAGCGGTCCATGGACTT
CGGCCGCACCTACCAGCCCTGGCAGTTCTTTGCCTCCTCCAAGAGGGACTGTCTGGAGCGGTTTCGGGCCACAGAC
GCTGGAGCGCATCACACGGGACGACGCGGCCATCTGCACCACCGAGTACTCACGCATCGTGCCCTGGAGAACGG
AGAGATCGTGGTGTCCCTGGTGAACGGACGTCCGGGCGCCATGAATTTCTCCTACTCGCCGCTGCTACGTGAGTT
CACCAAGGCCACCAACGTCCGCTTCCTGCGTACCAACACGCTGCTGGGCCATCTCATGGGGAAGGCGCT
GCGGGACCCACGGTCACCCGCGGCTATTATTACAGCATCAAGGATATCAGCATCGGAGGCGCTGTGTCTGCCA
CGGCCACGCGGATGCCTGCGATGCCAAAGACCCACGGACCCGTTTCAAGGCTGCAGTGCACCTGCCAGCACAACAC
CTGCGGGGGCACCTGCGACCGCTGCTGCCCGGCTTCAATCAGCAGCCGTGGAAGCCTGCGACTGCCAACAGTGC
CAACGAGTGCCAGTCTGTAACTGCTACGGCCATGCCACCGACTGTTACTACGACCCCTGAGGTGGACCGGCGCCG
CGCCAGCCAGAGCCTGGATGGCACCTATCAGGGTGGGGGTGTCTGTATCGACTGCCAGCACCACACCACCGGCGT
CAACTGTGAGCGCTGCCTGCCCCGCTTCTACCGCTCTCCCAACCACCTCTCGACTCGCCCCACGTCTGCCGCCG
CTGCAACTGCGAGTCCGACTTCACGGATGGCACCTGCGAGGACCTGACGGGTCGATGCTACTGCCGGCCCAACTT
CTCTGGGGAGCGGTGTGACGTGTGTGCCGAGGGCTTCACGGGCTTCCCAAGCTGCTACCCGACGCCCTCGTCCTC
CAATGACACCAGGGAGCAGGTGCTGCCAGCCGGCCAGATTGTGAATTGTGACTGCAGCGCGGCAGGGACCCAGGG
CAACGCCTGCCGGAAGGACCCAAAGGGTGGGACGCTGTCTGTGCAAACCCAACTTCCAAGGCACCCATTGTGAGCT
CTGCGCGCCAGGGTTCTACGGCCCCGGCTGCCAGCCCTGCCAGTGTTCAGCCCTGGAGTGGCCGATGACCGCTG
TGACCCCTGACACAGGCCAGTGCAGGTGCCGAGTGGGCTTCGAGGGGGCCACATGTGATCGCTGTGCCCCCGGCTA
CTTTCACTTCCCTCTCTGCCAGTTGTGTGGCTGCAGCCCTGCAGGAACCTTGCCCGAGGGCTGCGATGAGGCCGG
CCGCTGCCTATGCCAGCCTGAGTTTGTGTGGACCTCATTGTGACCGGTGCCGCCCTGGCTACCATGGTTTCCCCAA
CTGCCAAGCATGCACCTGCGACCCCTCGGGGAGCCCTGGACCAGCTCTGTGGGGCGGGAGGTTTGTGCCGCTGCCG
CCCCGGCTACACAGGCACTGCCTGCCAGGAATGCAGCCCCGGCTTTCACGGCTTCCCCAGCTGTGTCCCTGCCA
CTGCTCTGCTGAAGGCTCCCTGCACGCAGCCTGTGACCCCCGAGTGGGCAGTGCAGCTGCCGGCCCCGTGTGAC
GGGGCTGCGGTGTGACACATGTGTGCCCGGTGCCATAACTTCCCCTACTGCGAAGCTGGCTCTTGCCACCCCTGC
CGGTCTGGCCCCAGTGGATCCTGCCCTTCTGAGGCACAGGTTCCCTGTATGTGCCGGGCTCACGTGGAGGGGCC
GAGCTGTGACCGCTGCAAACCTGGGTTCTGGGGACTGAGCCCCAGCAACCCCGAGGGCTGTACCCGCTGCAGCTG
CGACCTCAGGGGCACACTGGGTGGAGTTGCTGAGTGCCAGCCGGGCACCGGCCAGTGTCTTGCAAGCCCCACGT
GTGCGGCCAGGCCTGCGCGTCTGCAAGGATGGCTTCTTTGGACTGGATCAGGCTGACTATTTTGGCTGCCGCAG
CTGCCGGTGTGACATTGGCGGTGCACTGGGCCAGAGCTGTGAACCGAGGACGGGCGTCTGCCGGTGCCGCCCAA
CACCCAGGGCCCCACCTGCAGCGAGCCTGCGAGGGACCACTACCTCCCGACCTGCACCACCTGCGCCTGGAGCT
GGAGGAGGCTGCCACACCTGAGGGTACAGCCGTGCGCTTTGGCTTCAACCCCTCGAGTTCGAGAACTTCAGCTG
GAGGGGCTACGCGCAGATGGCACCTGTCCAGCCCAGGATCGTGGCCAGGCTGAACCTGACCTCCCCCTGACCTTTT
CTGGCTCGTCTTCCGATACGTCAACCGGGGGGCCATGAGTGTGAGCGGGCGGGTCTCTGTGCGAGAGGAGGGCAG
GTCCGCCACCTGCGCCAACCTGCACAGCACAGAGTCAGCCCGTGGCCTTCCACCCAGCACGGAGCCTGCCTTCAT
CACCGTGCCCCAGAGGGGCTTCGGAGAGCCCTTTGTGCTGAACCTGGCACCTGGGCCCTGCGTGTGGAGGCCGA
AGGGGTGCTCCTGGACTACGTGGTTCTGTGCTGCCTAGCGCATACTACGAGGCGGCGCTCCTGCAGCTGCGGGTGAC
TGAGGCCTGCACATAACCGTCCCTCTGCCAGCAGTCTGGCGACAACCTGCCTCCTCTACACACACCTCCCCCTGGA
TGGCTTCCCCCTCGGCCGCCGGGCTGGAGGCCCTGTGTGCCAGGACAACAGCCTGCCCCGGCCCTGCCCCACGGA
GCAGCTCAGCCCGTGCACCCGCCACTGATCACCTGCACGGGCAGTGTGTGGACGTCCAGCTTCAAGTGGCAGT
GCCACAGCCAGGCCGCTATGCCCTAGTGGTGGAGTACGCCAATGAGGATGCCCGCCAGGAGGTGGGCGTGGCCGT
GCACACCCACAGCGGGCCCCCAGCAGGGGCTGCTCTCCCTGCACCCCTGCCTGTACAGCACCTGTGCCGGGG
CACTGCCCGGGATACCCAGGACCACCTGGCTGTCTTCCACCTGGACTCGGAGGCCAGCGTGAGGCTCACAGCCGA

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FIGURE 871B

ACAGGCACGCTTCTTCTGACGGGGTCACTCTGGTGCCCATTGAGGAGTTTACGCCCGGAGTTCTGTGGAGCCCCG
GGTCAGCTGCATCAGCAGCCACGGCGCCTTTGGCCCCAACAGTGCCGCCTGTCTGCCCTCGCGCTTCCCAAAGCC
GCCCCAGCCCATCATCTCAGGGACTGCCAGGTGATCCCGCTGCCGCCCGGCCTCCCGCTGACCCACGCGCAGGA
TCTCACTCCAGCCATGTCCCCAGCTGGACCCCGACCTCGGCCCCCCACCGCTGTGGACCTGATGCAGAGCCCCAC
CCTGCTGCGTGAGCCCCAGGCCACCGTGGTCTTACCACCCATGTGCCACGCTGGGCCGCTATGCCTTCCTGCT
GCACGGCTACCAGCCAGCCACCCACCTTCCCCGTGGAAGTCTCATCAACGCCGGCCGCGTGTGGCAGGGCCA
CGCCAACGCCAGCTTCTGTCCACATGGCTACGGCTGCCGCACCCTGGTGGTGTGTGAGGGCCAGGCCCTGCTGGA
CGTGACCCACAGCGAGCTCACTGTGACCGTGCGTGTGCCAAGGGCCGGTGGCTCTGGCTGGATTATGTACTCGT
GGTCCCTGAGAACGTCTACAGCTTTGGCTACCTCCGGGAGGAGCCCTGGATAAATCCTATGACTTCATCAGCCA
CTGCGCAGCCAGGGCTACCACATCAGCCCCAGCAGCTCATCCCTGTTCTGCCGAAACGCTGCTGCTTCCCTCTC
CCTCTTCTATAACAACGGAGCCCGTCCATGTGGCTGCCACGAAGTAGGTGCTACAGGCCCCACGTGTGAGCCCTT
CGGGGGCCAGTGTCCCTGCCATGCCCCATGTCAATGGCCGTGACTGCTCCCGCTGTGCCACCGGATACTGGGGCTT
CCCCAACTGCAGGCCCTGTGACTGCGGTGCCCGCCTCTGTGACGAGCTCACGGGCCAGTGCATCTGCCCGCCACG
CACCATCCCGCCCGACTGCCTGCTGTGCCAGCCCCAGACCTTTGGCTGCCACCCCTGGTCCGGCTGTGAGGAGTG
TAACTGCTCAGGGCCCGGCATCCAGGAGCTCACAGACCCTACCTGTGACACAGACAGCGGCCAGTGCAAGTGCA
ACCCAACGTGACTGGGCGCCGCTGTGATACCTGCTCTCCGGGCTTCCATGGCTACCCCGCTGCCGCCCTGTGA
CTGTACAGAGGCGGGCACTGCGCCTGGCGTGTGTGACCCCTCACAGGGCAGTGCTACTGTAAGGAGAACGTGCA
GGGCCCCAAATGTGACAGTGACGCTTGGGACCTTCTCACTGGATGCTGCCAACCCCAAAGGTTGCACCCGCTG
CTTCTGCTTTGGGGCCACGGAGCGCTGCCGGAGCTCGTCTACACCCGCCAGGAGTTCTGTGGATATGGAGGGATG
GGTGTCTGTGAGCACTGACCGGCAGGTGGTGCCCCACGAGCGGCAGCCAGGGACGGAGATGCTCCGTGCAGACCT
GCGGCACGTGCCTGAGGCTGTGCCCGAGGCTTTCCCCGAGCTGTACTGGCAGGCCCCACCTCCTACCTGGGGGA
CCGGGTGTATCTACGGTGGGACCTCCGTTATGAAGTGCCTCAGAGACCCAGCGGGGAGATGTCTTTGTCCC
CATGGAGAGCAGGCCGGATGTGGTGTGTCAGGGCAACCAGATGAGCATCACATTCTGGAGCCGGCATACCCAC
GCCTGGCCACGTTACCGTGGGCAGCTGCAGCTGGTGGAGGGGAAGTTCCGGCATAACGGAGACGCGCAACACTGT
GTCCCGCAGGAGCTCATGATGGTGTGTCAGGCTGGAGCAGCTGCAGATCCGTGCCCTCTTCTCACAGATCTC
CTCGGCTGTCTTCTGCGCAGGGTGGCACTGGAGGTGGCCAGCCAGCAGGCCAGGGGGCCCTGGCCAGCAATGT
GGAGCTGTGCCTGTGCCCCGCCAGCTACCGGGGGGACTCATGCCAGGAATGTGCCCCCGGCTTCTATCGGGACGT
CAAAGGTCTCTTCTGGGCCGATGTGTCCCTTGTGAGTGCCATGGACACTCAGACCGCTGCCTCCCTGGCTCTGG
CGTCTGTGTGGACTGCCAGCACAAACCCGAAGGGGCCACTGTGAGCGCTGCCAGGCTGGCTTCGTGAGCAGCAG
GGACGACCCAGCGCCCCCTGTGTGAGCTGCCCCCTGCCCCCTCTCAGTGCCCTTCCAACAAGTTCCGCCAGGGCTG
TGTCTGCGAGGCGGGCCGACCCAGTGCCCTGTGAAAACCTGGTTATGCAGGTGCCTCCTGCGAGCGGTGTGCGCC
CGGATTCTTTGGGAACCCACTGGTGCTGGGCAGCTCCTGCCAGCCATGCGACTGCAGCGGCAACGGTGACCCCAA
CTTGCTCTTTCAGCGACTGCGACCCCTGACGGGCGCCTGCCGTGGCTGCCTGCGCCACACCACTGGGCCCGCTG
CGAGATCTGTGCCCCCGCTTCTACGGCAACGCCCTGTGCCCCGCAACTGCACCCGGTGCAGCTGTACCCCATG
TGGGACAGAGGCTGCGACCCCCACAGCGGGCACTGCCTGTGCAAGGCGGGCGTGAAGTGGCGCGCTGTGACCG
CTGCCAGGAGGGACATTTTGGTTTCGATGGCTGCGGGGGCTGCCGCCCGTGTGCTTGTGGACCGGCCCGGAGGG
CTCCGAGTGCCACCCCCAGAGCGGACAGTGCCACTGCCGACCAGGGACCATGGGACCCAGTGCCGCGAGTGTGC
CCCTGGCTACTGGGGGCTCCCTGAGCAGGGCTGCAGGCGCTGCCAGTGCCCTGGGGGCGCTGTGACCTCACAC
GGGCCGCTGCAACTGCCCCCGGGGCTCAGCGGGGAGCGCTGCGACACCTGCAGCCAGCAGCATCAGGTGCCTGT
TCCAGGCGGGCCTGTGGGCCACAGCATCCACTGTGAAGTGTGTGACCACTGTGTGGTCTGCTCCTGGATGACCT
GGAACGGGCGGGCGCCCTCCTCCCCGCCATTACGAGCAACTGCGTGCCATCAATGCCAGTCCATGGCCTGGGC
CCGTCTGCACAGGCTGAACGCCTCCATCGCTGACCTGCAGAGCCAGCTCCGGAGCCCCCTGGGCCCGCCATGA
GACGGCACAGCAGCTGGAGGTGCTGGAGCAGCAGAGCACAAGCCTCGGGCAGGACGCACGGCGGCTAGGCGGCCA
GGCCGTGGGGACCCGAGACCAGGCGAGCCAATTGCTGGCCGGCACCGAGGCCACACTGGGGCATGCGAAGACGCT
GTTGGCGGCCATCCGGGCTGTGGACCGCACCTGAGCGAGCTCATGTCCAGACGGGCCACCTGGGGCTGGCCAA
TGCTTCGGCTCCATCAGGTGAGCAGCTGCTCCGGACACTGGCCGAGGTGGAGCGGCTGCTCTGGGAGATGCGGGC
CCGGGACCTGGGGGCCCCGAGGCAGCAGCTGAGGCTGAGTTGGCTGCAGCACAGAGATTGCTGGCCCCGGGTGCA
GGAGCAGCTGAGCAGCTCTGGGAGGAGAACCAGGCACTGGCCACACAAACCCGCGACCGGCTGGCCCAGCACGA

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FIGURE 871C

GGCCGGCCTCATGGACCTGCGAGAGGCTTTGAACCGGGCAGTGGACGCCACACGGGAGGCCAGGAGCTCAACAG
CCGCAACCAGGAGCGCCTGGAGGAAGCCCTGCAAAGGAAGCAGGAGCTGTCCCGGACAATGCCACCCTGCAGGC
CACTCTGCATGCGGCTAGGGACACCCTGGCCAGCGTCTTCAGATTGCTGCACAGCCTGGACCAGGCTAAGGAGGA
GCTGGAGCGCCTCGCCGCCAGCCTGGATGGGGCTCGGACCCCACTGCTGCAGAGGATGCAGACCTTCTCCCCGGC
GGGCAGCAAGCTGCGTCTAGTGGAGGCCGCCGAGGCCACGCACAGCAGCTGGGCCAGCTGGCACTCAATCTGTC
CAGCATCATCTGGACGTCAACCAGGACCGCCTCACCAGAGGGCCATCGAGGCCTCCAACGCCTACAGCCGCAT
CCTGCAGGCCGTGCAGGCTGCCGAGGATGCTGCTGGCCAGGCCCTGCAGCAGGCGGACCACACGTGGGCGACGGT
GGTGGCGCAGGGCCTGGTGGACCGAGCCCAGCAGCTCCTGGCCAACAGCACTGCACTAGAAGAGGCCATGCTCCA
GGAACAGCAGAGGCTGGGCCTTGTGTGGGCTGCCCTCCAGGGTGCCAGGACCCAGCTCCGAGATGTCCGGGCCAA
GAAGGACCAGCTGGAGGCGCACATCCAGGCGGCGCAGGCCATGCTTGCCATGGACACAGACGAGACAAGCAAGAA
GATCGCACATGCCAAGGCTGTGGCTGCTGAAGCCAGGACACCGCCACCCGTGTGCAGTCCCAGCTGCAGGCCAT
GCAGGAGAATGTGGAGCGGTGGCAGGGCCAGTACGAGGGCCTGCGGGGCCAGGACCTGGGCCAGGCAGTGCTTGA
CGCAGGCCACTCAGTGTCCACCCTGGAGAAGACGCTGCCCCAGCTGCTGGCCAAGCTGAGCATCCTGGAGAACC
TGGGGTGACAACGCCAGCCTGGCCCTGTCCGCCAGCATTGGCCGCGTGCGAGAGCTCATTGCCAGGCCCGGGG
GGCTGCCAGTAAGGTCAAGGTGCCCCATGAAGTTCAACGGGCGCTCAGGGGTGCAGCTGCGCACCCCCACGGGATCT
TGCCGACCTTGCTGCCTACACTGCCCTCAAGTTCTACCTGCAGGGCCCAGAGCCTGAGCCTGGGCAGGGTACCGA
GGATCGCTTTGTGATGTACATGGGCAGCCGCCAGGCCACTGGGGACTACATGGGTGTGTCTCTGCGTGACAAGAA
GGTGCAGTGGGTGTATCAGCTGGGTGAGGCGGGCCCTGCAGTCCTAAGCATCGATGAGGACATTGGGGAGCAGTT
CGCAGCTGTGAGCCTGGACAGGACTCTCCAGTTTGGCCACATGTCCGTACAGTGGAGAGACAGATGATCCAGGA
AACCAAGGGTGACACGGTGGCCCCCTGGGGCAGAGGGGCTGCTCAACCTGCGGCCAGACGACTTCGTCTTCTACGT
CGGGGGGTACCCACGTACCTTCACGCCCCCTCCCCTGCTTCGCTTCCCCGGCTACCGGGGCTGCATCGAGATGGA
CACGCTGAATGAGGAGGTGGTTCAGCCTCTACAACCTTCGAGAGGACCTTCAGCTGGACACGGCTGTGGACAGGCC
TTGTGCCCCGCTCCAAGTCGACCGGGGACCCGCTGGCTCACGGACGGCTCCTACCTGGACGGCACCGGCTTCGCCCG
CATCAGCTTCGACAGTCAGATCAGCACCAACCAAGCGCTTCGAGCAGGAGCTGCGGCTCGTGTCTACAGCGGGGT
GCTCTTCTTCTGAAGCAGCAGAGCCAGTTCCCTGTGCTTGGCCGTGCAAGAAGGCAGCCTCGTGTGTGTATGA
CTTTGGGGCTGGCCTGAAAAAGGCCGTCCCACTGCAGCCCCCACCGCCCTGACCTCGGCCAGCAAGGCGATCCA
GGTGTTCCTGCTGGGGGGCAGCCGCAAGCGTGTGCTGGTGCCTGTGGAGCGGGCCACGGTGTACAGCGTGGAGCA
GGACAATGATCTGGAGCTGGCCGACGCCTACTACCTGGGGGGCGTGCCGCCGACAGCTGCCCCCGAGCCTGCG
ACGGCTCTTCCCCACCGGAGGCTCAGTCCGTGGCTGCGTCAAAGGCATCAAGGCCCTGGGCAAGTATGTGGACCT
CAAGCGGCTGAACACGACAGGCGTGAGCGCCGGCTGCACCGCCGACCTGCTGGTGGGGCGCGCCATGACTTTCCA
TGGCCACGGCTTCCTTCGCCTGGCGCTCTCGAACGTGGCACCGCTCACTGGCAACGTCTACTCCGGCTTCGGCTT
CCACAGCGCCCAGGACAGTGCCCTGCTCTACTACCGGGCGTCCCCGGATGGGCTATGCCAGGTGTCCCTGCAGCA
GGGCCGTGTGAGCCTACAGCTCCTGAGGACTGAAGTGAAACTCAAGCGGGCTTCGCCGATGGTGGCCCCCATT
CGTCGCCTTCTACAGCAATGCCACGGGAGTCTGGCTGTATGTGATGACAGCTCCAGCAGATGAAGCCCCACCG
GGGACCACCCCCGAGCTCCAGCCGAGCCTGAGGGGCCCCGAGGCTCCTCCTGGGAGGCCTGCCTGAGTCTGG
CACCATTTACAACCTTCAGTGGCTGCATCAGCAACGTCTTCGTGCAGCGGCTCCTGGGCCCCACAGCGCGTATTGA
TCTGCAGCAGAACCTGGGCAGCGTCAATGTGAGCACGGGCTGTGCACCCGCCCTGCAAGCCCCAGACCCGGGCCT
GGGGCCTAGAGGACTGCAGGCCACCGCCCCGAAGGCCTCCCGCCGACCGCTCAGCCCCGCCCGGCATCCTGCCTG
CATGCTGCCCCACACCTCAGGACCACCGAGACTCCTACCAGTTTGGGGGTTCCCTGTCCAGTCACTGGAGTT
TGTGGGCATCCTGGCCCCGACATAGGAACTGGCCAGTCTCTCCATGCACGTCTCCTCCCGCAAGCTCCCGAGGCCT
CCTCCTCTTCACTGCCCCGTCTGAGGCCCCGGCAGCCCCCTCCCTGGCGCTCTTCTGAGCAATGGCCACTTCGTTC
ACAGATGGAAGGCCTCGGGACTCGGCTCCGCGCCAGAGCCGCCAGCGCTCCCGGCCTGGCCGCTGGCACAAGGT
CTCCGTGCGCTGGGAGAAGAACC GGATCCTGCTGGTGACGGACGGGGCCCCGGGCCTGGAGCCAGGAGGGGCCGA
CCGGCAGCACAGGGGGCAGAGCACCCCCAGCCCCACACCTCTTTGTGGGCGGCCTCCCGGCCAGCAGCCACAG
CTCCAAACTTCCGGTGACCGTTCGGGTTCAGCGGCTGTGTGAAGAGACTGAGGCTGCACGGGAGGCCCTGGGGG
CCCCACACGGATGGCAGGGGTACACCCCTGCATCTTGGGCCCCCTGGAGGCGGGCCTGTTCTTCCAGGCAGCGG
GGGAGTTATCACTTTAGACCTCCAGGAGCTACACTGCCTGATGTGGGCTGGAAGTGGAGGTGCGGCCCTGGC
AGTCACCGGACTGATCTTCCACTTGGGCCAGGCCCGACGCCCCCTACTTGAGTTGCAGGTGACCGAGAAGCA

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FIGURE 871D

AGTCCTGCTGCGGGCGGATGACGGAGCAGGGGAGTTCTCCACGTCAGTGACCCGCCCCTCAGTGCTGTGTGATGG
CCAGTGGCACCGGCTAGCGGTGATGAAAAGCGGGAATGTGCTCCGGCTGGAGGTGGACGCGCAGAGCAACCACAC
CGTGGGCCCCCTTGCTGGCGGCTGCAGCTGGTGCCCCAGCCCCTCTGTACCTCGGGGGCCTGCCTGAGCCCATGGC
CGTGCAGCCCTGGCCCCCGCCTACTGCGGCTGCATGAGGAGGCTGGCGGTGAACCGGTCCCCCGTCGCCATGAC
TCGCTCTGTGGAGGTCCACGGGGCAGTGGGGGCCAGTGGCTGCCCAGCCGCCTAGGACACAGCCAACCCCGGCC
CTGGTCAGGCCCTGCAGCTGCCTCACACCGCCCCTTGCTGCTCGCCTCATAGGTGTCTATTTGGACTCTAAGCTC
TACGGGTGACAGATCTTGTTTCTGAAGATGGTTTAAGTTATAGCTTCTTAAACGAAAGAATAAAATACTGCAAAA
TGTTTTTATATTTGGCCCTTCCACCCATTTTTAATTGTGAGAGATTGTACCAATCATCACTGGTTCCTCCTTA
AAAATTAAAAAGTAACTTCTGTGTAA

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FIGURE 872A

MAKRLCAGSALCVRGPRGPAPLLLVGLALLGAARAREEAGGGFSLHPPYFNLAEGARIAASATCGEEAPARGSPR
PTEDLYCKLVGGPVAGGDPNQITIRGOYCDICTAANSNKAHPASNAIDGTERWWQSPPLSRGLEYNEVNTLDLGQ
VFHVAYVLIKFA NSPRPDLWVLERSMDFGRITYQPWQFFASSKRDCLERFGPQTLERITRDAAICTTEYSRIVPL
ENGEIVVSLVNGRPGAMNFSYSPLLREFTKATNVRLRFLRTNTLLGHLMGKALRDPTVTRYYYSIKDISIGGRC
VCHGHADACDAKDPDTPFRLQCTCQHNTCGGTCDRCCPGFNQQPWKPATANSANECQSCNCYGHATDCYYDPEVD
RRRASQSLDGTYYGGGVCIDCQHHTTGVCNCRCLPGFYRSPNHPLDSPHVCRRNCNCSDFDTGTCEDLTGRICYCR
PNFSGERCDCVCAEGFTGFPSCYPTPSSSNDTREQVLPAGQIVNCDCSAAGTQGNACRKDPRVGRCLCKPNFQGT
CELCA PGFYGPGCQPCQCSSPGVADDRCDPTGQCRCRVGFEGATCDRCAPGYFHFPLCQLCGCSPAGTLPEGCD
EAGRCLCQPEFAGPHCDRCRPGYHGFPCQACTCDPRGALDQLCGAGGLCRCPGYTGACQECSPGFHGFPCV
PCHCSAEGSLHAACDPRSGQCSRCRPRVTGLRCDTCVP GAYNFYCEAGSCHPAGLAPVDPALPEAQVPCMCRAHV
EGPSCDRCKPGFWGLSPSNPEGCTRCSCDLRGTLLGGVAECQPGTGQCFCKPHVCGQACASCKDGGFFGLDQADYFG
CRSCRCDIGGALGQSCEPRTGVCRCRPNTOGPTCSEPARDHYPDLHHLRLELEEAATPEGHAVRFGFNPLEFEN
FSWRGYAQMAPVQPRIVARLNLTPDLFWLVFRYVNRGAMSVSGRVSVREEGRSATCANCTAQSQPVAFPSTEP
AFITVPQRGFGEFVLNPGTWALRVEAEGVLLDYVLLPSAYYEAALLQLRVTEACTYRPSAQSGDNCLLYTHL
PLDGFPSAAGLEALCRQDNSLPRPCPTQLSPSHPLITCTGSDVDVQLQVAVPQPGRYALVVEYANEDARQEVG
VAVHTPQRAPQQGLLSLHPCLYSTLCRGRTARDTQDHLAVFHL DSEASVRLTAEQARFFLHGVTLPVIEEFSPFV
EPRVSCISSHGAFGPNSAACLP SRFPKPPQPIILRDCQVILPPLGLPLTHAQDLTPAMSPAGPRPRPTAVDPDA
EPTLLREPQATVVFTHVPTLGRYAFLLHGYQPAHPTFFVEVLINAGRVWQGHANASFCPHGYGCRTL VVCEGQA
LLDVTHSELTVTVRVPKGRWLWLDYVLVVPENVYSFGYLREEPLDKSYDFISHCAAQGYHISPSSSSLFCRNAAA
SLSLFYNNGARPCGCHEVGATGPTCEPFGGQCPCHAHVIGRDCSRCATGYWGFPCRCDCGARLCDEL TGQCIC
PPRTIPPDCLLCQPQTFGCHPLVGCCECNCSGPGIQELTDPTCDTDSGQCKCRPNVTGRRCDTCSPGFHHGYPRCR
PCDCHEAGTAPGVCDPLTGQCYCKENVQGPCKDCSLGTFSLDAANPKGCTRCFCFGATERCRSSSYTRQEFVDM
EGWVLLSTDRQVVPHERQPGTEMLRADLRHVPEAVPEAFPELYWQAPPSYLGDRVSSYGGTLRYELHSETQRGDV
FVPMESRPDVVLQGNQMSITFLEPAYPTPGHVHRGQLQLVEGNFRHTETRTVSR EELMMVLASLEQLQIRALFS
QISSAVFLRRVALEVASPAGQ GALASNVELCLCPASYRGDSCQECAPGFYRDVKGLFLGRCVPCQCHGHS DRCLP
GSGVCVDCQHNTGEGAH CERCQAGFVSSRDDPSAPCVSCPCPLSVP SNNFAEGCVLRGGRTQCLCKPGYAGAS CER
CAPGFFGNPLVLGSSCQPCDCSGNGDPNLLFSDCDPLTGACRGCLRHTTGPRCEICAPGFYGNALLPGNCTRDC
TPCGTEACDPHSGHCLCKAGVTGRRCDRCQEGHFGFDGCGGCRPCACGPAAEGSECHPQSGQCHCRPGTMGPQCR
ECAPGYWGLPEQGCRRCQCPGGRCDPHTGRCNCPGLSGERCDCSQQHQVPVPGGPVGHSHCEVCDHCVVLLL
DDLERAGALLPAIHEQLRGINASSMAWARLHRLNASIADLQSQLRSP LGRHETAQQLEVLEQQSTSLGQDARRL
GGQAVGTRDQASQLLAGTEATLGHAKTLLAAIRAVDRTLSELMSQTGHLGLANASAPSGEQLLRTLAEVERLLWE
MRARDLGAPQAAAAEALAAQRLLARVQEQLSSLWEENQALATQTRDLAQHEAGLMDLREALNRAVDATREAQE
LNSRNQERLEELQKQELSRDNATLQATLHAARDTLASVFRLLHSLDQAKEELERLAASLDGARTPLLQRMQTF
SPAGSKLRLVEAAEAHAQQLGQLALNLSSII LDVNQDRLTQRAIEASNAYSRILOAVQAAEDAAGQALQQADHTW
ATVVRQGLVDRAQQLLANSTALEEAMLQEQQLGLVWAAALQGARTQLRDVRAKKDQLEAHIQAAQAMLAMDTDET
SKKIAHAKAVAAEAQDTATRVQSQLQAMQENVERWQGYEGLRGQDLGQAVLDAGHSVSTLEKTL PQLLAKLSIL
ENRGVHNASLALSASIGRVRELIAQARGAASKVKVPMKFNGRSGVQLRTPRDLADLAAYTALKFYLQGPPEPEPGQ
GTEDRFVMMGSRQATGDYMGVSLRDKKVHWVYQLGEAGPAVLSIDEDIGEQA AVSLDRTLQFGHMSVTVERQM
IQETKGD TVAPGAEGLLNLRPDDFVFYVGGYPSTFTPPPLLRFP GYRGCIEMDTLN EEEVSLYNFERTFQLDTAV
DRPCARSKSTGDPWLTGDSYLDGTGFARISFDSQISTTKRFEQELRLVSYSGLVFLFKQSQFLCLAVQEGSLVL
LYDFGAGLKKAVPLQPPPLTSASKAIQVFLLGGSRRKRVLRVERATVYSVEQDNDLELADAYYLGVPDPQLPP
SLRRLFP TGGSVRGCVKGKIKALGKYVDLKRNLTTGVSAGCTADLLVGRAMTFHGHGFLRLALS NVAPLTGNVYSG
FGFHS AQDSALLYRASPDGLCQVSLQQGRVSLQLLRTEVKTQAGFADGAPHYVAFYSNATGVWLYVDDQLQOMK
PHRGPPPELQPOPEGPPRLLLGLPESGTIYNFSGCISNVFVQRL LGPQRVFDLQQLGSVNVSTGCAPALQAQT
PGLGPRGLQATARKASRRSRQPARHPACMLPPLHRTTRDSYQFGGSLSSHLEFVGILARHRNWP SLSMHVLP RSS
RGLLLFTARLRPGSPSLALFLSNGHFVAQMEGLGTRLRAQSRQSRPGRWHKVSVRWEKNRILLVTDGARAWSQE
GPHRQHQA EHPQPHTLFVGGLPASSHSSKLPVTVGFSGCVKRLRLHGRPLGAPTRMAGVTPCILGPLEAGLFFP
GSGGVITL DLPGATLPDVGLELEVRPLAVTGLIFHLGQARTPPYLQLQVTEKQVLLRADDGAGEFSTS VTRPSVL

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FIGURE 872B

CDGQWHRLAVMKSGNVLRLEVDAQSNHTVGPLLAAAAGAPAPLYLGGLPEPMAVQPPAYCGCMRRLAVNRSPV
AMTRSVEVHGAVGASGCPAA

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FIGURE 873

GAATTCGGGAAAAGACCGAAGAAGGAGGCTGGAGAGACCAGGATCCTTCCAGCTGAACAAAGTCAGCCACAAAGC
AGACTAGCCAGCCGGCTACAATTGGAGTCAGAGTCCCAAAGACATGGGCTTGTAGAGTGCTGTGCAAGATGTCT
GGTAGGGGCCCCCTTTGCTTCCCTGGTGGCCACTGGATTGTGTTTCTTTGGGGTGGCACTGTTCTGTGGCTGTGG
ACATGAAGCCCTCACTGGCACAGAAAAGCTAATTGAGACCTATTTCTCCAAAACCTACCAAGACTATGAGTATCT
CATCAATGTGATCCATGCCTTCCAGTATGTATCTATGGAAGTGCCTCTTTCTTCTCCTTTATGGGGCCCTCCT
GCTGGCTGAGGGCTTCTACACCACCGGCGCAGTCAGGCAGATCTTTGGCGACTACAAGACCACCATCTGCGGCAA
GGGCTGAGCGCAACGGTAACAGGGGGCCAGAAGGGGAGGGGTTCAGAGGCCAACATCAAGCTCATTCTTTGGA
GCGGGTGTGTAAGTTGTTTGGGAAAATGGCTAGGACATCCCGACAAGTTTGTGGGCATCACCTATGCCCTGACCGT
TGTTGGCTCCTGGTGTTCCTGCTCTGCTGTGCCTGTGTACATTTACTTCAACACCTGGACCACCTGCCAGTC
TATTGCCCTTCCCCAGCAAGACCTCTGCCAGTATAGGCAGTCTCTGTGCTGACGCCAGAATGTATGGTGTCTCCC
ATGGAATGCTTTCCCTGGCAAGGTTTGTGGCTCCAACCTTCTGTCCATCTGCAAAACAGCTGAGTTCCAAATGAC
CTTCCACCTGTTTATTGCTGCATTTGTGGGGCTGCAGCTACACTGGTTTCCCTGCTCACCTTCATGATTGCTGC
CACTTACAACCTTTGCCGTCCTTAAACTCATGGGCGGAGGCACCAAGTCTGATCCCCCGTAGAAATCCCCCTTTC
TCTAATAGCGAGGCTCCTCTAACCACACAGCCTACAATGCTGCGTCTCCCATCTTAACCTCTTTGCCCTTTGCCACC
AACTGGCCCTCTTCTTACTTGATGAGTGTAACAAGAAAGGAGAGTCTTGCACTGATTAAAGGTCTCTCTTTGGACT
CTCCCCTCTTATGTACCTCTTTTAGTCATTTTGCTTCATAGCTGGTTCCCTGCTAGAAATGGGAAATGCCTAAGAA
GATGACTTCCCAACTCGAAGTCACAAAGGAATGGAGGCTCTAATTGAATTTTCAAGCATCTCCTGAGGATCAGAA
AGTAATTTCTTCTCAAAGGGTACTTCCACTGATGGAAACAAAGTGGAAAGGAAAGAAGGTGAGGTACAGAGAAGGA
ATGTCTTTGGTCTCTTGCCATCTATAGGGGGCCAAATATATTCTCTTTGGTGTACAAAATGGAATTCATTCTGGT
CTCTCTATTACCACTGAAGATAGAAGAAAAAAGAAATGTCAGAAAAACAATAAGAGCGTTTGGCCAAATCTGCCTA
TTGCAGCTGGGAGAAGGGGGTCAAAGCAAGGATCTTTCACCCACAGAAAGAGAGCACTGACCCCGATGGCGATGG
ACTACTGAAGCCCTAACTCAGCCAACCTTACTTACAGCATAAGGGAGCGTAGAATCTGTGTAGACGAAGGGGGCA
TCTGGCCTTACACCTCGTTAGGGAAGAGAAAACAGGGTGTGTGTCAGCATCTTCTCACTCCCTTCTCCTTGATAACA
GCTACCATGACAACCCTGTGGTTTCCAAGGAGCTGAGAATAGAAGGAAACTAGCTTACATGAGAACAGACTGGCC
TGAGGAGCAGCAGTTCTGGTGGCTAATGGTGTAACTGAGATGGCCCTCTGGTAGACACAGGATAGATAACTCT
TTGGATAGCATGTCTTTTTTCTGTAAATTAGTTGTGTACTCTGGCCTCTGTCATATCTTCACAATGGTGCTCAT
TTCATGGGGTATTATCCATTCACTCATCGTAGGTGATTTGAAGGTCTTGATTTGTTTTAGAATGATGCACATTTT
ATGTATTCCAGTTTGTATTACTTATTTGGGGTTCATCAGAAATGTCTGGAGAATAATTCTTTGATTATGACT
GTTTTTTAAACTAGGAAAATTGGACATTAAGCATCACAAATGATATTAAAATTGGCTAGTTGAATCTATTGGGA
TTTTCTACAAGTATTCTGCCTTTGCAGAAACAGATTTGGTGAATTTGAATCTCAATTTGAGTAATCTGATCGTTC
TTTCTAGCTAATGGAAAATGATTTTACTTAGCAATGTTATCTTGGTGTGTTAAGAGTTAGGTTTAACATAAAGGT
TATTTTCTCCTGATATAGATCACATAACAGAATGCACCAGTCATCAGCTATTCAAGTTGGTAAGCTTCCAGGAAAA
AGGACAGGCAGAAAGAGTTTGAGACCTGAATAGCTCCAGATTTCAAGTCTTTTCTGTTTTGTTAACTTTGGGT
TAAAAAAGAGTCTGATTGGTTTTAATTGAAGGAAAGATTTGTACTACAGTTCTTTTGTGTAAAGAGTTG
TGTTGTTCTTTTCCCCCAAAGTGGTTTCAGCAATATTTAAGGAGATGTAAGAGCTTTACAAAAAGACACTTGATA
CTTGTTTTCAAACCAGTATACAAGATAAGCTTCCAGGCTGCATAGAAGGAGGAGAGGGAAAATGTTTTGTAAGAA
ACCAATCAAGATAAAGGACAGTGAAGTAATCCGTACCTTGTGTTTTGTTTTGATTTAATAACATAACAAATAACC
AA

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FIGURE 874

MGLLECCARCLVGAPFASLVATGLCFFGVALFCGCGHEALTGTEKLIETYFSKNYQDYEYLINVIHAFQYVIYGT
ASFFFLYGALLLAEGFYTTGAVRQIFGDYKTTICGKGLSATVTGGQKGRGSRGQHQAHS LERVCTCLGKWLGHDP
KFVGITYALTVVWLLVFACSAVPVYIYFNTWTTTCQSIAPPSKTSASIGSLCADARMYGVL PWNAPGKVCGSNLL
SICKTAEFQMTFHLFIAAFVGAAATLVSLLTFMIAATYNFAVLKLMGRGTKE

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FIGURE 875

GACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCGAGCTTGTTACTGGTTACTTGGCCTCATGGC
GGTCCGAGCTTCGTTTCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATAACCATCCCCGTGGTGCACGCGTC
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC
CGACCAGGAGCTGCAACACATTTCGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC
AGCCTTGGGCAATGTCAACCACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAAGA
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG
TGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCCTCTCTTCT
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTG
GTGTGCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC
CCAGCCTAGCACCATTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCTTGAGTCACCTTCCAAGTTGT
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACCTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCCTTTTCCACCTGTGCTTATCGCCTGGATCT
ATCATTACTGCAAAAACCTGCTCTGTTGTGCTGGCTGGCAGGCCCTGTGGCTGCTGGCTGAGGGTTCTGCTGTCC
TGTGCCACCCCATTAAGTGCAGTTCCTCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 876

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRHGLLPNN
TTDQELQHIRNSLPDTVQIRRVEERLSALGNVTTCDYVALVHPDLDRETEEILADVLKVEVFRQTVADQVLVGS
YCVFSNQGGLVHPKTSIEDQDELSSLLQVPLVAGTVNRGSEVIAAGMVNDWCAFCGLDTTSTELSVVESVFKLN
EAQPSTIATSMRDSLIDSLT

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FIGURE 877

GGCACGAGGGAGAGAGAACTAGTCTCGAGTTTTTTTTTTTTTTTTTGTGCAGGTAGGAAATGTCTTTATTATTGG
CCTTGAGTCATCATGTAGTGTCTGACATAGGTTACGTGTCCAGAGGATCTGCCTGGCACACGCTAGCTACCCCTG
CCCACTGGAGCAGCCCCTCTGGCCGACGCCAGGCCTTTGTCCATCATGCCAGGGAAGCCAACCCACCATCCCAC
AAGTTCATGCTAGGGGTGCTGAGGAACAAGGCTGTCCTAGGATTGGACCCTCCATCCTGGACAGGGGTCTGGGG
AGGATGAGGCTGAGGCCTGGATGATCAGTCTCTTTTTGGTTTCATGATCATTAAAAAACAGAAAAGACAAACAT
TTCACAGTCTTTAAAAAATAGAAGTCTGAGGAGAGAAGCCAGAGTCCTGGGCCCCGGGAGGCCCCCTCGAGGCCTC
AGCATTCCCTGTCCCTTGAGGTCTGTCTGACGGCCTGGCCACAGCACACGTGGCCCGTTATTGGAGCCAGGCCTA
CACCCAGCAACCATGTCCAAGGGACCTGCAGTTGGTATTGATCTTGGCACCACCTACTCTTGTGTGGGTGTTTT
CCAGCACGAAAAGTCGAGATAATTGCCAATGATCAGGGAAACCGAACCCTCCAAGCTATGTCGCCTTTACGGA
CACTGAACGGTTGATCGGTGATGCCGCAAAGAATCAAGTTGCAATGAACCCACCAACACAGTTTTTGATGCCAA
ACGTCTGATTGGACGCAGATTTGATGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAA
TGATGCTGGCAGGCCCAAGGTCCAAGTAGAATACAAGGGAGAGACCAAAAGCTTCTATCCAGAGGAGGTGTCTTC
TATGGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACCAATGCTGTGGTCACAGT
GCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAGATGCTGGAACCTATTGCTGGTCTCAATGTACTTAG
AATTATTAATGAGCCAACCTGCTGCTGCTATTGCTTACGGCTTAGACAAAAAGGTTGGAGCAGAAAAGAAACGTGCT
CATCTTTGACCTGGGAGGTGGCACTTTTGATGTGTCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAGTC
TACAGCTGGAGACACCCACTTGGGTGGAGAAGATTTTGACAACCGAATGGTCAACCATTTTTATTGCTGAGTTTTAA
GCGCAAGCATAAGAAGGACATCAGTGAGAACAAGAGAGCTGTAAGACGCCTCCGTAAGTCTTGTGAACGTGCTAA
GCGTACCCTCTCTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTC
CATTACCCGTGCCGATTTGAAGAACTGAATGCTGACCTGTTCCGTGGCACCCCTGGACCCAGTAGAGAAAGCCCT
TCGAGATGCCAACTAGACAAGTCACAGATTGATGATATTGTCTGTTGGTGGTTCTACTCGTATCCCCAAGAT
TCAGAAGCTTCTCCAAGACTTCTTCAATGGAAGAAGTGAATAAGAGCATCAACCCCTGATGAAGCTGTTGCTTA
TGGTGAGCTGTCCAGGCAGCCATCTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTTGGATGT
CACTCCTCTTTCCCTTGGTATTGAAACTGCTGGTGGAGTCATGACTGTCTCATCAAGCGTAATACCACCATTCC
TACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACCAGCCTGGTGTGCTTATTCAGGTTTATGAAGGCGA
GCGTGCCATGACAAAGGATAACAACCTGCTTGGCAAGTTTGAAGTCACAGGCATACCTCCTGCACCCCGAGGTGT
TCCTCAGATTGAAGTCACTTTTGACATTGATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGG
AAAAGAGAACAAGATTACTATCACTAATGACAAGGGCCGTTTGAGCAAGGAAGACATTGAACGTATGGTCCAGGA
AGCTGAGAAGTACAAGCTGAAGATGAGAAGCAGAGGGACAAGGTGTCTCATCCAAGAATCACTTGAGTCCTATGC
CTTCAACATGAAAGCAACTGTTGAAGATGAGAACTTCAAGGCAAGATTAAAGATGAGGACAAACAGAAGATTCT
GGACAAGTGTAATGAAATTATCAACTGGCTTGATAAGAATCAGACTGCTGAGAAGGAAGAATTTGAACATCAACA
GAAAGAGCTGGAGAAAGTTTGCAACCCCATCATCACCAGCTGTACCAGAGTGCAGGAGGCATGCCAGGAGGAAT
GCCTGGGGGATTTCTGGTGGTGGAGCTCCTCCCTCTGGTGGTGTCTCCTCAGGGCCCACCATTTGAAGAGGTTGA
TTAAGCCAACCAAGTGTAGATGTAGCATTGTTCCACACATTTAAACATTTGAAGGACCTAAATTCGTAGCAAAT
TCTGTGGCAGTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATAT
GCACAGGGGAAGGAAATAACATTGCACTTTATAAACACTGTATTGTAAGTGGAAGATGCAATGTCTTAAATAAAA
CTATTTAAATTTGGCACCATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 878

MSKGPAVGIDLGTTYSVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDKRLIG
RRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYF
NDSQRQATKDAGTIAGLNVLRINEPTAAAIAYGLDKKVGAEARNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGD
THLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRA
RFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAV
QAAILSGDKSENVQDLLLLDVTFPLSLGIETAGGVMTVLIKRNNTTIPTKQTQTFTTYSQNPQGVLIQVYEGERAMT
KDNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSVDKSTGKENKITITNDKGRLSKEDIERMVQEAKEY
KAEDEKQDKVSSKNSLESYAFNMKATVEDEKLQKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQQKELE
KVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD

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FIGURE 879

CCTCTGCTTCCTCTAGGAACACAGGAGTTCCAGATCACATCGAGTTCACCATGAATTCAGTCAAGCCAACA
CCAAGTTTCATGTTTCGATCTGTTCCAACAGTTTCAGAAAATCAAAAGAGAACAACATCTTCTATTCCCCTATCAGCA
TCACATCAGCATTAGGGATGGTCCTCTTAGGAGCCAAAGACAACACTGCACAACAAATTAGCAAGGTTCTTCACT
TTGATCAAGTCACAGAGAACACCACAGAAAAAGCTGCAACATATCATGTTGATAGGTCAGGAAATGTTTCATCACC
AGTTTCAAAAGCTTCTGACTGAATTCAACAAATCCACTGATGCATATGAGCTGAAGATCGCCAACAAGCTCTTCG
GAGAAAAGACGTATCAATTTTTACAGGAATATTTAGATGCCATCAAGAAATTTTACCAGACCAGTGTGGAATCTA
CTGATTTTGCAATGCTCCAGAAGAAAGTCGAAAGAAGATTAACCTCCTGGGTGGAAAGTCAAACGAATGAAAAA
TTAAAAACCTATTTCTGATGGGACTATTGGCAATGATACGACACTGGTTCCTGTGAACGCAATCTATTTCAAAG
GGCAGTGGGAGAATAAATTTAAAAAAGAAAACACTAAAGAGGAAAAATTTGGCCAAACAAGAATACATACAAAT
CTGTACAGATGATGAGGCAATACAATTCCTTTAATTTGCCTTGCTGGAGGATGTACAGGCCAAGGTCCTGGAAA
TACCATACAAAGGCAAAGATCTAAGCATGATTGTGCTGCTGCCAAATGAAATCGATGGTCTGCAGAAGCTTGAAG
AGAACTCACTGCTGAGAAATTGATGGAATGGACAAGTTTGCAGAATATGAGAGAGACATGTGTCTGATTTACACT
TACCTCGGTTCAAAATGGAAGAGAGCTATGACCTCAAGGACACGTTGAGAACCATGGGAATGGTGAATATCTTCA
ATGGGGATGCAGACCTCTCAGGCATGACCTGGAGCCACGGTCTCTCAGTATCTAAAGTCCTACACAAGGCCTTTG
TGGAGGTCACTGAGGAGGGAGTGGAAGCTGCAGCTGCCACCGCTGTAGTAGTAGTCGAATTATCATCTCCTTCAA
CTAATGAAGAGTTCTGTTGTAATCACCTTTTCTTCTTATAAGGCAAAATAAGACCAACAGCATCCTCTTCT
ATGGCAGATTCTCATCCCCATAGATGCAATTAGTCTGTCACTCCATTTAGAAAATGTTACCTAGAGGTGTTCTG
GTAACTGA

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FIGURE 880

MNSLSEANTKFMFDLFQQFRKSKENNIFYSPISITSALGMVLLGAKDNTAQQISKVLHFDQVTENTTEKAATYHV
DRSGNVHHQFQKLLTEFNKSTDAYELKIANKLFGEKTYQFLQEYLDAIKKFYQTSVESTDFANAPEESRKKINSW
VESQTNEKIKNLFPDGTIGNDTTLVLVNAIYFKGQWENKFKKENTKEEFKFWPNKNTYKSVQMMRQYNSFNFALLE
DVQAKVLEIPYKGDLSMIVLLPNEIDGLQKLEEKLTAEKLEWTSLQNMRETCVDLHLPRFKMEESYDLKDTLR
TMGMVNIFNGDADLSGMTWSHGLSVSKVLHKAFVEVTEEGVEAAAATAVVVVELSSPSTNEEFCCNHFFLFFIRQ
NKTNSILFYGRFSSP

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FIGURE 881

CAGAAGGATGTCGCTGCTGAGCCTGTCTTGGCTGGGCCTCAGGCCGGTGGCAGCATCCCCGTGGCTGCTCCTGCT
GGTGGTCGGGGCCTCCTGGCTCCTGGCCCCGCATCCTGGCCTGGACCTATGCCTTCTATCACAACGGCCGCCGCT
CCGGTGTTTTCCCGCAGCCCCGGAAACAGAACTGGTTCTTGGGTACCTGGGCCTGGTCACTCCCACAGAGGAGGG
CTTGAGGGTCTTGACCCAGCTGGTGGCCACCTACCCCCAGGGCTTTGTGAGGTGGTTGGGCCCCATCACTCCCAT
CATCAACTTGTGCCACCCTGACATCGTCCGATCTGTCATCAATACCTCAGATGCCATTACAGACAAGGACATAGT
CTTCTACAAGACCCTGAAGCCCTGGCTGGGGGATGGGCTCTTGTTAAGTGTGGTGACAAGTGGAGACACCACCG
TCGCTTGCTGACGCCTGCCTTCCATTTCAACATCCTGAAGCCCTATATAAAGATTTTCAGCAAGAGTGCAAACAT
CATGCATGCCAAGTGGCAACGCCTGGCCATGGAGGGCAGCACCTGTCTGGATGTGTTTGAGCACATCAGCCTTAT
GACCCTGGACAGTCTGCAGAAATGCATCTTCAGCTTTGACAGCAATTGTCAGGAGAAGCCAGTGAATATATTAC
TGCGATCATGGAGCTCAGTGCCCTTGTAAGTGAACCGGAATAACCAGTTCTTCCGGTACAAGGACTTCTGTACTT
CCTCACTCCCTGTGGACGGCGCTTCCACAGGGCCTGCAGACTGGTGCACGACTTCACAGATGCCGTCATCCAGGA
GCGGCGCCGCACCCTCACTAGCCAGGGTGTGATGACTTCTTCCAAAGCCAAGGCCAAGTCCAAGACTTTGGACTT
TATTGATGTGCTCCTGCTGAGCGAGGATAAAAAATGGTAAAGAGTTGTCAGATGAGGACATAAGAGCAGAAAGCTGA
CACTTTTCATGTTTGGAGGCCATGACACCACGGCCAGTGGCCTCTCCTGGGTCTTGTACAACCTCGCGAGGCACCC
AGAATACCAAGAACGCTGCCGGCAGGAGGTGCAAGAGCTTCTGAAGGACCGTGAGCCTAAAGAGATTGAATGGGA
CGACCTGGCCCAGTTGCCCTTCTTGACCATGTGCCTGAAGGAGAGCCTGCGGTTGCATCCCCCAATCCCTACATT
CGCCCGCGGCTGCACCCAGGACGTGGTGCTCCCAGACAGCCGAGTCATCCCCAAAGGGAATGTCTGTAACATCAA
CATCTTCGCAATCCATCACAACCCCTCAGTCTGGCCAGACCCTGAGGTCTATGACCCCTTCCGCTTCGACCCCGA
AAACGCCCAGAAGAGGTACCTATGGCTTTTATTCTTTCTCGGCGGGGCCAGGAAGTGCATCGGGCAGAAGTT
CGCGATGGCAGAGATGAAGGTGGTCCTGGCGCTCACGCTGCTGCGCTTCCGCATCCTGCCCCGACCACAGGGAGCC
ACGCAGGACGCCGAGATTGTTTTGCGTGCGGAGGACGGACTTTGGCTCCGAGTAGAACCCTGGGGCTGAGGCCT
GCAGTGACCCACCCACCTACCTTTGCATCACCTACCTTTGCACCAACTACCTTTTCAGATTTCCGGTAATAAATC
TGTTGTTGGCCCCTGTGCCTCAGTCCCGCGGATGGCCAGTAGGGGGCGCTGGAGGACTGCGGGGATCTAGGGCCTG
GCTGGGAAGAGGCGGGGAGATGTCTCTGTGCCAAGATACTCACTGCCTCTCTGGGTGAGCACAGGAGCCCCGTG
CTGAGGGTGGGATCTCCAGAGTCTAAGTAAAGACTTTTTTCCCCC

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FIGURE 882

MSLLSLSWLGLRPVAASPWLLLLLVVGASWLLARILAWTYAFYHNRRRLRCFPQPRKQNWFLGHLGLVTPTEEGLR
VLTQLVATYPQGFVRWLGPITPIINLCHPDIVRSVINTSDAITDKDIVFYKTLKPWLGDGLLSVGDKWRHHRRL
LTPAFHFNILKPYIKIFSANSIMHAKWQRLAMEGSTCLDVFEHISLMTLDSLQKCIFSFSNQCQEKPSYITAI
MELSALVVKRNNQFFRYKDFLYFLTPCGRRFHRACRLVHDFDVAIQERRRILTSQGVDDFLQAKAKSKTLDFID
VLLSEDKNGKELSDEDIKAEADTFMFGGHDTTASGLSWVLYNLARHPEYQERCQEVQELLKDREPKEIEWDDL
AQLPFLTMCLKESLRLHPPIPTFARGCTQDVVLPDSRVIPKGNVCNINIFAIHHNPSVWPDPEVYDPFRFDPENA
QKRSPMAFIPFSAGPRNCIGQKFAMAEMKVVLALTLLRFRILPDHREPRRTPEIVLRAEDGLWLRVEPLG

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FIGURE 883

CCCAAGCCTTCGGGTAGGGTGCCTTCAGCCGCTACAAGAGCAGAAGCAGTGGGCATTGGATGGAGCTGAGTACAG
GACCATACAGGCTAATTGCACCGGCACAGTGAAATAAGATTTGCGCGCCTATCATCTGCTAACTGCTACGGACTC
AGGCTCAGAAAGGCCTGCGCTTCACCCAGGAATCGGATATAACATCATCTGGGTACCCATGGCCAGCTGTGACTT
CTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACAACCTTCAGCCTCCCAGAGGAAGA
TACCAAGCTCAAGATAACCCCTGATTACCGAGCCCTGCAGTTGGCCCAGCGTCCCGTTTCACTCCTTGCCAGCCC
CTGGACATCACCCACTCGGCTCAAGACCAGGGGAGCGGGGAATGGGAAGGGGCCACTCAAGGGACAGCCCAGAGA
CATCTACCACCAGACCTGGGCCAGATACATTGTGAAGTTCCTGGATGCCTATGCTGAGCACAAGTTACAGTTCTG
GGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTGAGTGGATAACCCCTTCCAGTGCCTGGGCTTCACCCC
TGAACATCAGCGAGACTTCATTGCCCGTGACCTAGGTCCTACCCTTGCCAACGGTACTCACCACAATGTCCGCCT
ACTCATGCTGGATGACCAACGCTTGCTGCTGCCCCACTGGGCAAAGGTGGTACTGACAGACCCAGAAGCAGCTAA
GTATGTTTATGGTATTGCTGTACATTGGTACCTGGACTTTCTGGCTCCAGCCAAAGCCACCCTAAGGGAGACACA
CCACCTGTTCCCCAACACCATGCTCTTTGCCTCAGAGGCCTGTGTGGGTTCCAAGTTCTGGGAGCAGAGTGTGCG
GCTAGGCTCCTGGGATCGAGGGATGCAGTACAGCCACAGCATCATCACAACCTCCTGTACCATGTGGTCGGCTG
GACCGACTGGAACCCATCATTTGTAGACATCACCAAGCACACGTTTTTACAAACAGCCCATGTTCTACCACCTTGGC
CACTTCAGCAAGTTTCATTCTGAGGGCTCCCAGAGAGTGGGGCTGGTTGCCAGTCAGAAGAACGACCCGGACGCA
GTGGCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTCTGTGCTAAACCGCTCCTCTAAGGATGTGCCTCTTACC
ATCAAGGATCCTGCTGTGGGCTTCTGGAGACAATCTCACCTGGCTACTCCATTACACCTACCTGTGGCGTCGC
CAGTGATGGAGCAGATACTCAAGGAGGCACTGGGCTCAGCCTGGGCATTAAAGGGACAGAGTCAGCTCACACGCT
GTCTGTGACTAAAGAGGGCACAACAGGGCCAGCGTGACGTTACAGCGACGTAAGCCCAGGGGCAATGGTTTGGGT
GACTCACTTTCCCTCTAGGCGGTGCCAGGGGCTGGAGGCCCTAGAAAAAGATCAGTAAGCCCCAGTGTCCCC
CAGCCCCCATGCTTATGTGAACATGCGCTGTGTGCTGCTTGTGTTGGAACTGGGCCTGGGTCCAGGCCTAGGGT
GAGCTCACTGTCCGTACAAACACAAGATCAGGGCTGAGGGTAAGGAAAAGAAGAGACTAGGAAAGCTGGGCCCAA
AACTGGAGACTGTTTGTCTTTCCTGGAGATGCAGAACTGGGCCCGTGGAGCAGCAGTGTGAGCATCAGGGCGGAA
GCCTTAAAGCAGCAGCGGGTGTGCCCAGGCACCCAGATGATTCTATGGCACCCAGCCAGGAAAAATGGCAGCTCT
TAAAGGAGAAAAATGTTTGAGCCC

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FIGURE 884

MASCDFSIRTYTYADTPDDFQLHNFSLPEEDTKLKIPLIHRALQLAQRPVSLASPWTSPTRLKTRGAGNGKGPL
KGQPRDIYHQTWARYIVKFLDAYAEHKLQFWAVTAENEPSAGLLSGYPFQCLGFTPEHQRDFIARDLGPTLANGT
HHNVRLMLDDQRLLLPHWAKVVLTDPEAAKYVHGIAVHWYLDFLAPAKATLRETHLFPNTMLFASEACVGSKF
WEQSVRLGSWDRGMQYSHSIITNLLYHVVGWTDWNPSL

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FIGURE 885

ĀAGGAGGCGGCCTCCGGGAAAĀGCGACCGCAGGACTCCTGAGAGCAGCCTCCATGAGGCCCTGGACCAGTGCATG
ACCGCCCTGGACCTCTTCCCTACCAACCAGTTCTCAGAAGCACTCAGCTACCTCAAGCCCAGAACCAAGGAAAGC
ATGTACCACTCACTGACATATGCCACCATCCTGGAGATGCAGGCCATGATGACCTTTGACCCTCAGGACATCCTG
CTTGCCGGCAACATGATGAAGGAGGCACAGATGCTGTGTGTCAGAGGCACCGGAGGAAGTCTTCTGTAACAGATTCC
TTCAGCAGCCTGGTGAACCGCCCCACGCTGGGCCAATTCACTGAAGAAGAAATCCACGCTGAGGTCTGCTATGCA
GAGTGCCTGCTGCAGCGAGCAGCCCTGACCTTCCCTGCAGGACGAGAACATGGTGAGCTTCATCAAAGGCGGCATC
AAAGTTCGAAACAGCTACCAGACCTACAAGGAGCTGGACAGCCTTGTTCACTCCTCACAATACTGCAAGGGTGAG
AACCACCCGCACTTTGAAGGAGGAGTGAAGCTTGGTGTAGGGGCCCTTCAACCTGACACTGTCCATGCTTCCTACT
AGGATCCTGAGGCTGTTGGAGTTTGTGGGGTTTTTCAGGAAACAAGGACTATGGGCTGCTGCAGCTGGAGGAGGGA
GCGTCAGGGCACAGCTTCCGCTCTGTGCTCTGTGTGTCATGCTCCTGCTGTGCTACCACACCTTCCCTACCTTCGTG
CTCGGTACTGGGAACGTCAACATCGAGGAGGCCGAGAAGCTCTTGAAGCCCTACCTGAACCGGTACCCTAAGGGT
GCCATCTTCCCTGTTCTTTGCAGGGAGGATTGAAGTCATTAAAGGCAACATTGATGCAGCCATCCGGCGTTTCGAG
GAGTGTCTGTGAGGCCAGCAGCACTGGAAGCAGTTTCACCACATGTGCTACTGGGAGCTGATGTGGTGCTTCACC
TACAAGGGCCAGTGAAGATGTCTACTTCTACGCCGACCTGCTCAGCAAGGAGAACTGCTGGTCCAAGGCCACC
TACATTTACATGAAGGCCGCTACCTCAGCATGTTTGGGAAGGAGGACCACAAGCCGTTTCGGGGACGACGAAGTG
GAATTATTTGAGCTGTGCCAGGCCTGAAGCTCAAGATTGCTGGGAAATCTCTACCCACAGAGAAGTTTGCCATC
CGGAAGTCCCGCGCTACTTCTCCTCCAACCCTATCTCGCTGCCAGTGCCTGCTCTGGAAATGATGTACATCTGG
AACGGCTACGCCGTGATTGGGAAGCAGCCGAAACTCACGGATGGGATACTTGAGATTATCACTAAGGCTGAAGAG
ATGCTGGAGAAAGGCCCCAGAGAACGAGTACTCAGTGGATGACGAGTGCTTGGTGAAATTGTTGAAAGGCCCTGTGT
CTGAAATACCTGGGCCGTGTCCAGGAGGCCGAGGAGAATTTTAGGAGCATCTCTGCCAATGAAAAGAAGATTAAA
TATGACCACTACTTGATCCCAAACGCCCTGCTGGAGCTGGCCCTGCTGCTTATGGAGCAAGACAGAAACGAAGAG
GCCATCAAACCTTTTGGAAATCTGCCAAGCAAACTACAAGAATTACTCCATGGAGTCAAGGACACACTTTCGAATC
CAGGCAGCCACACTCCAAGCCAAGTCTTCCCTAGAGAACAGCAGCAGATCCATGGTCTCATCAGTGTCTTGTAG

CTTTGTGCAGCAGTTCCGGGCTGGAAGACAGAGACAGCTGGACAGAGCTCCTGAAAACATTTCAAAAATACCCCT
CCCCCTGCCCTGCCCTGCCCTTGGGGTCCACCGGCACTCCAGTTGGATGGCACAACATAGTGTATCCGTGCAGAA
GCCGAGCTGGCATTTCACCAAGTGTAGCCAAGGGCCTTTGCCAAGGGCAGAGCAGGTGGAGCCCTCTGCCTGCC
TATCACACATACGGGTACTTGCTTTTCACTGTGATGTTTAAGAGAATGTATGAACAGTTTACATTTTCCTTAGAA
ATACATTGATGGGATCACAGTTGGCTTTAAAAACCAACAACAATCAACCACCTGTAAGTCTTTGTCTTCACCTAT
TATCATCTGGAGGTAAATCTCTTTATATGATGATGCCAAGGGCAAATTGCTTTTCAAATTCAGCAAGTTCTCAG
CTTGTGTGACGGAAGGTCTTCAGAGGACCTGAGGAATGCCTGGGAGAGGCTAAGCCTCAGGCTTCAATGCTTCT
GGGGTTGGGCATGAGGATGTACACAGACACCCACTACCTTACTACTCACACTTCATTTCACTCCTTTTGTAAATT
TCCAATTTAAAAATCAAGCACGTCTTTTGTAGTGAGATAAAATCTGAGCTCTTCTGTAGAAAAATCAATCTCTACC
AGTAGAAAAATGCCAGGGCTTGATGGAAGAGCTGTGTAGCCCTTTCTATGCCAAGCCAGGAAATTTGGGGGGCAG
GAGGAGGTTCTCAGAATCCAGTCTGTATCTTTGCTGTATGCCAAACTGAAACCACTGGGAATAATTTATGAAACA
TAAAAATCTTCTGTACTTCACTCCAAGGTACATTTGCTTACTGACAGCATTTTGTGTTAAACTGTTATTCTTGAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 886

KEAASGKSDRRTPÉSSLHEALDQCMTALDLFLTNQFSEALSYLKPRTKESMYHSLTYATILEMQAMMTFDPQDIL
LAGNMMKEAQMLCQRHRRKSSVTDSEFSSLVNRPTLGQFTEEEIHAEVCYAECLLQRAALTFLQDENMVSVFIKGGI
KVRNSYQTYKELDSLQSSQYCKGENHPHFEGGVKLGVGAFNLTLTMLPTRLRLLEFVGFSGNKDYGLLQLEEG
ASGHSFRSVLCVMMLLCYHTFLTFVLGTGNVNIEEAELLLKPYLNRYPKGAIFLFFAGRIEVIKGNIDAAIRRF
ECCEAQQHWKQFHHMCYWELMWCFYKQWKMSYFYADLLSKENCWSKATYIYMKAAYLSMFGKEDHKPFGDDEV
ELFRAVPGLKLKIAGKSLPTEKFAIRKSRRYFSSNPISLPVPALEMMYIWNGYAVIGKQPKLTDGILEIITKAE
MLEKGPENEYSVDDECLVKLLKGLCLKYLGRVQEAENFRSISANEKKIKYDHYLIPNALLELALLLMEQDRNEE
AIKLESACKQNYKNYSMESRTHFRIQAATLQAKSSLENSRRSMVSSVSL

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FIGURE 887

AAGAACTGGCCTGTACATTTTCAAGGAATTCTTGAGAGGTTCTTGAGAGATTCTGGGAGCCAAACACTCCATTG
GGATCCTAGCTGTTTTAGAGAACAACCTTGTAATGGAGCCTTCATCTCTTGAGCTGCCGGCTGACACAGTGCAGCG
CATTGCCGGCTGAACTCAAATGCCACCCAACGGATGAGAGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAG
GCACCTCAGGGAGTGCTTTTATATTCCCAAAATACAGGATCTGCCTCCAGTTGATTTATCATTAGTGAATAAAGA
TGAAAATGCCATCTATTTCTTGGAATTTCTCTTGGCCTTCAACCAAAAATGGTTAAAACATATCTTGAAGAAGA
ACTAGATAAGTGGGCCAAAATAGCAGCCTATGGTCATGAAGTGGGGAAGCGTCCTTGGATTACAGGAGATGAGAG
TATTGTAGGCCTTATGAAGGACATTGTAGGAGCCAATGAGAAAGAAATAGCCCTAATGAATGCTTTGACTGTAAA
TTTACATCTTCTAATGTTATCATTTTTTAAGCCTACGCCAAAACGATATAAAATTCTTCTAGAAGCCAAAGCCTT
CCCTTCTGATCATTATGCTATTGAGTCACAACCTACAACCTTACCGGACTTAACATTGAAGAAAAGTATGCGGATGAT
AAAGCCAAGAGAGGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTAATTGAGAAGGAAGGAGACTCAAT
TGCAGTGATCCTGTTTCAGTGGGGTGCATTTTTTACACTGGACAGCACTTTAATATTCTTGCCATCACAAAAGCTGG
ACAAGCGAAGGGTTGTTATGTTGGCTTTGATCTAGCACATGCAGTTGGAAATGTTGAACTCTACTTACATGACTG
GGGAGTTGATTTTGCCTGCTGGTGTTCCTACAAGTATTTAAATGCAGGAGCAGGAGGAATTGCTGGTGCCTTCAT
TCATGAAAAGCATGCCCATACGATTAAACCTGCATTAGTGGGATGGTTTGGCCATGAACTCAGCACCAGATTTAA
GATGGATAACAACTGCAGTTAATCCCTGGGGTCTGTGGATTCCGAATTTCAAATCCTCCCATTTTGTGGTCTG
TTCTTGCATGCTAGTTTAGAGATCTTTAAGCAAGCGACAATGAAGGCATTGCGGAAAAAATCTGTTTTGCTAAC
TGGCTATCTGGAATACCTGATCAAGCATAACTATGGCAAAGATAAAGCAGCAACCAAGAAACCAGTTGTGAACAT
AATTACTCCGTCTCATGTAGAGGAGCGGGGGTGCCAGCTAACAATAACATTTTCTGTTCCAAACAAAGATGTTTT
CCAAGAACTAGAAAAAAGAGGAGTGGTTTGTGACAAGCGGAATCCAATGGCATTTCGAGTGGCTCCAGTTCCTCT
CTATAATTCCTTCCATGATGTTTATAAATTTACCAATCTGCTCACTTCTATACTTGACTCTGCAGAAACAAAAA
TTAGCAGTGTCTTCTAGAACAACCTTAAGCAAATTATACTGAAAGCTGCTGTGGTTATTTAGTATTATTCGATTT
TTAATTATTGAAAGTATGTCACCATTGACCACATGTAACATAACAATAAATAATATACCTTAC

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FIGURE 888

MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRECFYIPKIQDLPPVDLSLVNKDENAIYFLGNS
LGLQPKMVKTYLEEELDKWAKIAAYGHEVGKRPWITGDESIVGLMKDIVGANEKEIALMNALTVDLHLLMLSFFK
PTPKRYKILLEAKAFPSDHYAIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEKEGDSIAVILFSGVHF
YTGQHFNIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFACWCSYKYLNAGAGGIAGAFIHEKHAHTIKP
ALVGWFGHELSTRFKMDNKLQLIPGVCGRISNPPILLVCSLHASLEIFKQATMKALRKKSVELLTGYLEYLIKHN
YGKDKAATKKPVVNIITPSHVEERGQCLTITFSVPNKDVFQELEKRGVVCDKRNPNNGIRVAPVPLYNFHDVYKF
TNLLTSILDSAETKN

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FIGURE 889

TCCAATCGACAAGAAGCTGGAAAAGAATGATGTTGTCCTTAAACAACCTACAGAATATCATCTATAACCCGGTAA
TCCCGTTTGTGGCACCATTCCCTGATCAGCTGGATCCTGGAACCTTTGATTGTGATACGTGGGCATGTTCCCTAGTG
ACGCAGACAGATTCCAGGTGGATCTGCAGAATGGCAGCAGCATGAAACCTCGAGCCGATGTGGCCTTTCATTTCA
ATCCTCGTTTCAAAGGGCCGGCTGCATTGTTTGCAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCA
CCTATGACACGCCCTTCAAAGAGAGAAAAGTCTTTTGAGATCGTGATTATGGTGCTGAAGGACAAATTCAGGTGG
CTGTAAATGGAAAACATACTCTGCTCTATGGCCACAGGATCGGCCAGAGAAAATAGACACTCTGGGCATTTATG
GCAAAGTGAATATTTCACTCAATTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCCAAGCATCTAGTCTGGAAC
TGACAGAGATAAGTAGAGAAAATGTTCAAAGTCTGGCACGCCCCAGCTTCCTAGTAATAGAGGAGGAGACATTT
CTAAAATCGCACCCAGAAGTGTCTACACCAAGAGCAAAGATTGACTGTCAATCACACTTTGACTTGCACCAAAA
TACCACCTATGAACTATGTGTCAAAGAGGCTGCCATTGCTGCAAGGTTGAACACCCCCATGGGCCCTGGACGAA
CTGTGCTCGTTAAAGGAGAAAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGG
ATATTGCTCTACACTTGAACCCACGCCTGAATATTAAAGCATTTGTAAGAAATTCTTTTCTTCAGGAGTCCTGGG
GAGAAGAAGAGAGAAAATATTACCTCTCTCCCATTTAGTCTGGGATGTACTTTGAGATGATAATTTATTGTGATG
TTAGAGAATTCAAGGTTGCAGTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTA
TTGACACGCTGGAAATTAATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTA
CAAAAACCAAAATACAGAATGGCTTCTGTGATACTGGCCTTGC

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FIGURE 890

MMLSLNNLQNI IYNPVI PFVGTIPDQLDPGTLIVIRGHVPSDADRFQVDLQNGSSMKPRADVAFHFNPRFKRAGC
IVCNTLINEKWGREETIDTPFKREKSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGKVNIHSIG
FSFSSDLQSTQASSLELTEISRENVPKSGTPQLPSNRGGDISKIAPRTVYTKSKDSTVNHTLTCTKIPPMNYVSK
RLPFAARLNTPMGPGRITVVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRLNIAFVRNSFLQESWGEEERNITS
LPFSPGMYFEMIIYCDVREFKVAVNGVHSLEYKHRFKELSSIDTLEINGDIHLLEVRWS

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FIGURE 891

TCGGCCGAGCCCAGAGACAGCCAGTTCTCTCCCGCCGCGCCGGGCCGCGTGCCGCTCGCTCCCCGGCCGTGGCG
CCTCCGGGCCAGACGCGCTGCAGCCTCCAGCCCGCGGCAAGCGGGCGGGGCGGCCGCGCCACCCCGGCCCGCG
CCAGCAGCCCCCTCGCCGCGCGTCCAGCGTTCCCGGCCAGCAGCCTCCCATACGCAGTCTGTGCTGGACCGCCCCG
TCGCGCCCCCCTCTGAACTCAAGTCACCGTGGAGCTCCGCGCCCCGAAACTTTACGCGAGCGGGAAATATG

GGATGTATAAAATCAAAAGGGAAAGACAGCTTGAGTGACGATGGAGTAGATTTGAAGACTCAACCAGTACGTAAT
ACTGAAAGAACTATTTATGTGAGAGATCCAACGTCCAATAAACAGCAAAGGCCAGTTCCAGAATCTCAGCTTTTA
CCTGGACAGAGGTTTCAAATAAGATCCAGAGGAACAAGGAGACATTGTGGTAGCCTTGTAACCCCTATGATGGC
ATCCACCCGGACGACTTGTCTTTCAAGAAAGGAGAGAAGATGAAAGTCCTGGAGGAGCATGGAGAATGGTGGAAA
GCAAAGTCCCTTTTAACAAAAAAGAGGCTTCATCCCCAGCAACTATGTGGCCAAACTCAACACCTTAGAAACA
GAAGAGTGGTTTTTCAAGGATATAACCAGGAAGGACGCAGAAAGGCAGCTTTTGGCACCAGGAAATAGCGCTGGA
GCTTTCTTATTAGAGAAAAGTGAACATTAAAAGGAAGCTTCTCTGTCTGTCTCAGAGACTTTGACCCTGTGCAT
GGTGATGTTATTAAGCACTACAAAATTAGAAGTCTGGATAATGGGGCTATTACATCTCTCCACGAATCACTTTT
CCCTGTATCAGCGACATGATTAAACATTACCAAAGCAGGCAGATGGCTTGTGCAGAAGATTGGAGAAGGCTTGT
ATTAGTCCCAAGCCACAGAAGCCATGGGATAAAGATGCCTGGGAGATCCCCGGGAGTCCATCAAGTTGGTGAAA
AGGCTTGGCGCTGGGCAGTTTGGGGAAGTCTGGATGGGTTACTATAACAACAGTACCAAGGTGGCTGTGAAAACC
CTGAAGCCAGGAACTATGTCTGTGCAAGCCTTCTGGAAGAAGCCAACCTCATGAAGACCCTGCAGCATGACAAG
CTCGTGAGGCTCTACGCTGTGGTCACCAGGGAGGAGCCATTACATCATCACCGAGTACATGGCCAAGGGCAGT
TTGCTGGATTTCTGAAGAGCGATGAAGGTGGCAAAGTGCTGCTTCCAAAGCTCATTGACTTTTCTGCTCAGATT
GCAGAGGGAATGGCATACTCGAGCGGAAGAACTACATTACCGGGACCTGCGAGCAGCTAATGTTCTGGTCTCC
GAGTCACTAATGTGCAAAATTGCAGATTTTGGCCTTGCTAGAGTAATTGAAGATAATGAGTACACAGCAAGGGAA
GGTGCTAAGTTCCCTATTAAGTGGACGGCTCCAGAAGCAATCAACTTTGGATGTTTCACTATTAAGTCTGATGTG
TGGTCCTTTGGAACTCCTCTATACGAAATTGTCACCTATGGGAAAATTCCCTACCCAGGGAGAACTAATGCCGAC
GTGATGACCGCCCTGTCCAGGGCTACAGGATGCCCCGTGTGGAGAACTGCCAGATGAGCTCTATGACATTATG
AAAATGTGCTGGAAAGAAAAGGCAGAAGAGAGACCAACGTTTGACTACTTACAGAGCGTCCTGGATGATTCTAC
ACAGCCACGGAAGGGCAATACCAGCAGCAGCCTTAGAGCACAGGGAGACCCGTCCATTGGCAGGGGTGGCTGCC
TCATTTAGAGAGGAAAAGTAACCATCACTGGTTGCACTTATGATTTTATGTGCGGGGATCATCTGCCGTGCCTGG
ATCCTGAAATAGAGGCTAAATTACTCAGGAAGAACACCCCTCTAAATGGGAAAGTATTCTGTACTCTTAGATGGAT
TCTCCACTCAGTTGCAACTTGGACTTGTCTCAGCAGCTGGTAATCTTGCTCTGCTTGACAACATCTGAGTGCAG
CCGTTTGAGAAGAAAACATCTATTCTCTCAAAAATGCACCAACTAGCTCTATGTTTACAAATGGACATAGGAC
TCAAAGTTTCAGAGACCATTGCAATGAATCCCCAATAATTGCAGAACTAAACTCATTTATAAAGCTAAAATAACC
GGATATATACATAGCATGACATTTCTTTGTGCTTTGGCTTACTTGTTT

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FIGURE 892

MGCIKSKGKDSLSDDGVDLKTQPVNRTERTIYVRDPTSNKQQRFPVPESQLLPGQRFQTKDPEEQGDIVVALYPYD
GIHPDDL SFKKGEKMKVLEEHGEWWKAKSLLTKKEGFIPSNYVAKLNTLETEEWWFKDITRKDAERQLLAPGNSA
GAFLIRESETLKGSFSLSVRDFDPVHGDIVIKHYKIRSLDNGGGYYISPRITFPCISDMIKHYQKQADGLCRLEKA
CISPKPQKPWDKDAWEIPRESIKLVKRLGAGQFGEVWMGYNNSTKVAVKTLKPGTMSVQAFLEEANLMKTLQHD
KLVRLYAVVTREPIYIITEYMAKGSLLDFLKSDDEGKVLLPKLIDFSAQIAEGMAYIERKNYIHRDLRAANVLV
SESLMCKIADFGLARVIEDNEYTAREGAKFPIKWTAPAINFGCFTIKSDVWSFGILLYEIVTYGKIPYPGRTNA
DVMTALSQGYRMPRVENCPELYDIMKMCWKEKAEERPTFDYLQSVLDDFYTATEGQYQQQP

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FIGURE 893

AGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCTATAAACGCCA
ACAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGTCGGGACCAAGGCCCAAATGTCTGTGCCCTTC
AACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAGAACTGGTATAAAAAGTCCATCTGTGGACAGA
AAACGACTGTTTTATATGAATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCCAGCAGTTTTGC
CCATTGACCATGTTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTCTGACGCCTCAAAAC
TGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCACCGAGTAATGAGGCTTGGGACAACCTGGATT
CTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAATTACTGAATGCTTTACATAGTCACATGATTAAATA
AGAGAATGTTGACCAAGGACTTAAAAAATGGCATGATTATTCCTTCAATGTATAACAATTGGGGCTTTTTCATTA
ACCATTATCCTAATGGGGTTGTCACTGTTAATTGTGCTCGAATCATCCATGGGAACCAGATTGCAACAAATGGTG
TTGTCCATGTCAATTGACCGTGTGCTTACACAAATTGGTACCTCAATTCAAGACTTCATTGAAGCAGAAAGATGACC
TTTCATCTTTTAGAGCAGCTGCCATCACATCGGACATATTGGAGGCCCTTGGAAAGAGACGGTCACTTCACACTCT
TTGCTCCCAACATGAGGCTTTTGAGAACTTCCACGAGGTGTCCTAGAAAGGTTTCATGGGAGACAAAAGTGGCTT
CCGAAGCTCTTATGAAGTACCACATCTTAAATACTCTCCAGTGTTCTGAGTCTATTATGGGAGGAGCAGTCTTTG
AGACGCTGGAAGGAAATACAATTGAGATAGGATGTGACGGTGACAGTATAACAGTAAATGGAATCAAAATGGTGA
ACAAAAAGGATATTGTGACAAATAATGGTGTGATCCATTGATTGATCAGGTCTTAATTCTGTATTCTGCCAAAC
AAGTTATTGAGCTGGCTGGAAACAGCAAACCACCTTACGGATCTTGTGGCCCAATTAGGCTTGGCATCTGCTC
TGAGGCCAGATGGAGAATACACTTTGCTGGCACCTGTGAATAATGCATTTTCTGATGATACTCTCAGCATGGTTC
AGCGCCTCCTTAAATTAATTCTGCAGAATCACATATTGAAAGTAAAAGTTGGCCTTAATGAGCTTTACAACGGGC
AAATACTGGAACCATCGGAGGCAAACAGCTCAGAGTCTTCGTATATCGTACAGCTGTCTGCATTGAAAATTCAT
GCATGGAGAAAGGGAGTAAGCAAGGGAGAAACGGTGCATTACATATTCCGCGAGATCATCAAGCCAGCAGAGA
AATCCCTCCATGAAAAGTTAAAACAAGATAAGCGCTTTAGCACCTTCCTCAGCCTACTTGAAGCTGCAGACTTGA
AAGAGCTCCTGACACAACCTGGGAGACTGGACATTATTTGTGCCAACCAATGATGCTTTTAAGGGAATGACTAGTG
AAGAAAAAGAAATTCTGATACGGGACAAAAATGCTCTTCAAACATCATTCTTTATCACCTGACACCAGGAGTTT
TCATTGGAAGGATTGTAACCTGGTGTTACTAACATTTTAAAGACCACACAAGGAAGCAAAATCTTTCTGAAAG
AAGTAAATGATACACTTCTGGTGAATGAATTGAAATCAAAGAATCTGACATCATGACAACAAATGGTGTAAATTC
ATGTTGTAGATAAACTCCTCTATCCAGCAGACACACCTGTTGGAAATGATCAACTGCTGGAAATACTTAATAAAT
TAATCAAATACATCCAAATTAAGTTTGTTCGTGGTAGCACCTTCAAAGAAATCCCCGTGACTGTCTATACAATA
AAATTATAACCAAAGTTGTGGAACCAAAATTAAGTGATTGAAGGCAGTCTTCAGCCTATTATCAAACTGAAG
GACCCACACTAACAAAAGTCAAAATTGAAGGTGAACCTGAATTGAGACTGATTAAAGAAGGTGAAACAATAACTG
AAGTGATCCATGGAGAGCCAATTATTAAAAAATACACCAAAATCATTGATGGAGTGCCTGTGGAAATAACTGAAA
AAGAGACACGAGAAGAACGAATCATTACAGGTCTGAAATAAAATACACTAGGATTTCTACTGGAGGTGGAGAAA
CAGAAGAACTCTGAAGAAATTGTTACAAGAAGAGGTACCAAGGTACCAAAATTCATTGAAGGTGGTGTGGTTC
ATTTATTTGAAGATGAAGAAATTAAAAGACTGCTTCAGGGAGACACACCCGTGAGGAAGTTGCAAGCCAACAAA
AAGTTCAAGGTTCTAGAAGACGATTAAGGGAAGGTGCTTCTCAGTGAATAATCCAAAAACCAGAAAAAATGTTTA
TACAACCCTAAGTCAATAACCTGACCTTAGAAAATTGTGAGAGCCAAGTTGACTTCAGGAACTGAAACATCAGCA
CAAAGAAGCAATCATCAATAATTCTGAACACAAATTAATATTTTTTTTTCTGAATGAGAAACATGAGGGAAAT
TGTGGAGTTAGCCTCCTGTGGTAAAGGAATTGAAGAAAATATAACACCTTACACCTTTTTTCATCTTGACATTAA
AAGTTCTGGCTAACTTTGGAATCCATTAGAGAAAAATCCTTGTACACAGATTCATTACAATTCAAAATCGAAGAGT
TGTGAACTGTTATCCCATGGAAGCTAAGTTATAAAAAATAGGTGCTTGGTGTACAAAACTTTTTATATCAAAAGGCTTTGCAC
ATTTCTATATGAGTGGGTTTACTGGTAAATTATGTTATTTTTTACAACATAATTTTGTACTCTCAGAATGTTTGTGTC
ATATGCTTCTTGCAATGCATATTTTTTAATCTCAAACGTTTCAATAAAACCATTTTTTCAGATATAAAGAGAATTA
CTTCAAAATTGAGTAATTCAGAAAACTCAAGATTTAAGTTAAAAGTGGTTTGGACTTGGGAA

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FIGURE 894

MIPFLPMFSLLLLLIVNPINANNHYDKILAHSRIRGRDQGPNCALQQILGTTKKYFSTCKNWKKSICGQKTTV
LYECCPGYMRMEGMKGCPAVLPIDHVGTLGIVGATTTQRYSDASKLREEIEGKGSFTYFAPSNEAWDNLDSDIR
RGLESNVNVELLNALHSHMINKRMLTKDLKNGMIIPSMYNNLGLFINHYPNGVVTVNCARIIHGNQIATNGVVHV
IDRVLTQIGTSIQDFIEAEDDLSSFRAAAITSDILEALGRDGHFTLFAPTNEAFEKLPRGVLERFMGDKVASEAL
MKYHILNTLQCSESIMGGAVFETLEGNTIEIGCDGDSITVNGIKMVNKKDIVTNNGVIHLIDQVLIPDSAKQVIE
LAGKQQTTFDTDLVAQLGLASALRPDGEYTLLAPVNNAFSDDTLSMVQRLLKLILQNHILKVKVGLNELYNGQILE
TIGGKQLRVFVYRTAVCIENSCMEKGSQGRNGAIHIFREIIKPAEKSLHEKLGQDKRFSTFLSLLEAADLKELL
TQPGDWTLFVPTNDAFKGMTSEEKEILIRDKNALQNIILYHLLTPGVFIGKGFEPGVNLIKTTQGSKIFLKEVND
TLLVNELKSKESDIMTTNGVIHVVDKLLYPADTPVGNDQLEILNKLIKYIQIKFVRGSTFKEIPVTVYTTKIIT
KVVEPKIKVIEGSLQPIIKTEGPTLTKVKIEGEPEFRLIKEGETITEVIHGEP I IKKYTKIIDGVPVEITEKETR
EERIITGPEIKYTRISTGGGETEETLKLLQEEVTKVTKFIEGGDGHLEDEEIKRLLQGDTPVRKLQANKKVQG
SRRRLREGRSQ

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FIGURE 895

CGGAGCGAGGCAGCGCGCCCGGCTCCCGCGCCATGGGGCGGCTGGTGGCTGTGGGCTTGCTGGGGATCGCGCTGG
CGCTCCTGGGCGAGAGGCTTCTGGCACTCAGAAATCGACTTAAAGCCTCCAGAGAAGTAGAATCTGTAGACCTTC
CACACTGCCACCTGATTAAAGGAATTGAAGCTGGCTCTGAAGATATTGACATACTTCCCAATGGTCTGGCTTTTT
TTAGTGTGGGTCTAAAATTCCAGGACTCCACAGCTTTGCACCAGATAAGCCTGGAGGAATACTAATGATGGATC
TAAAAGAAGAAAAACCAAGGGCACGGGAATTAAGAATCAGTCGTGGGTTTGATTTGGCCTCATTCAATCCACATG
GCATCAGCACTTTTCATAGACAACGATGACACAGTTTATCTCTTTGTTGTAAACCACCCAGAATTCAAGAATACAG
TGGAAATTTTTAAATTTGAAGAAGCAGAAAATTCTCTGTTGCATCTGAAAACAGTCAAACATGAGCTTCTTCCAA
GTGTGAATGACATCACAGCTGTTGGACCGGCACATTTCTATGCCACAAATGACCACTACTTCTCTGATCCTTTCT
TAAAGTATTTAGAAACATACTTGAACCTTACACTGGGCAAATGTTGTTTACTACAGTCCAAATGAAGTTAAAGTGG
TAGCAGAAGGATTTGATTTCAGCAAATGGGATCAATATTTACCTGATGATAAGTATATCTATGTTGCTGACATAT
TGGCTCATGAAATTCATGTTTTGGAAAAACACACTAATATGAATTTAACTCAGTTGAAGGTACTTGAGCTGGATA
CACTGGTGGATAATTTATCTATTGATCCTTCCTCGGGGGACATCTGGGTAGTCTGTCTATCCTAATGGCCAGAAGC
TCTTCGTGTATGACCCGAACAATCCTCCCTCGTCAGAGGTTCTCCGCATCCAGAACATTCTATCTGAGAAGCCTA
CAGTGACTACAGTTTTATGCCAACAATGGGTCTGTTCTCCAAGGAAGTTCTGTAGCCTCAGTGTATGATGGGAAGC
TGCTCATAGGCACTTTATACCACAGAGCCTTGATTGTGAACCTTAAAATTGTACTTTTGGCATGAAAGTGCGATA
ACTTAACAATTAATTTTTCTATGAAATTGCTAATTCTGAGGGAATTTAACCAGCAACATTGACCCAGAAATGTATG
GCATGTGTAGTTAATTTTTATTCCAGTAAGGAACGGCCCTTTTAGTTCTTAGAGCACTTTTAACAAAAAAGGAAAA
TGAACAGGTTCTTTAAATGCCAAGCAAGGGACAGAAAAGAAAGCTGCTTTCGAATAAAGTGAATACATTTTGCA
CAAAGTAAGCCTCACCTTTGCCTTCCAAGTCCAGAACATGGATTCCACTGAAATAGAGTGAATTATATTTCTT
AAAATGTGAGTGACCTCACTTCTGGCACTGTGACTACTATGGCTGTTTAGAACTACTGATAATAACGTATTTTGA
TGTTTTGTACTTACATCTTTGTTTACCATTAAAAAGTTGGAGTTATATTAAAGACTAACTAAAATCCCCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 896

MGRLVAVGLLGIALALLGERLLALRNRLKASREVESVDLPHCHLIKIEAGSEDIDILPNGLAFFSVGLKFPGLH
SFAPDKPGGILMMDLKEEKPRARELRISRGFDLASFNPHGISTFIDNDDTVYLFVVNHPEFKNTVEIFKFEEAEN
SLLHLKTVKHELLPSVNDITAVGPAHFYATNDHYFSDPFLKYLETYLNLHWANVVYYSPNEVKVVAEGFDSANGI
NISPDDKYIYVADILAHEIHVLEKHTNMNLTQLKVLELDTLVDNLSIDPSSGDIWVCHPNGQKLFVYDPNNPFS
SEVLRIQNILSEKPTVTTVYANNGSVLQGSSVASVYDGKLLIGTLYHRALYCEL

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FIGURE 897A

TGCCAAGGCTCCAGCCCCGGCCGGGCTCCGAGGCGAGAGGCTGCATGGAGTGGCCGGCGCGGCTCTGCGGGCTGTG
GGCGCTGCTGCTCTGCGCCGGCGGGGGCGGGGGCGGGGGCGCCGCGCTACGGAACTCAGCCACCTGTGAC
AAATTTGAGTGTCTCTGTTGAAAACCTCTGCACAGTAATATGGACATGGAATCCACCCGAGGGAGCCAGCTCAAA
TTGTAGTCTATGGTATTTTAGTCATTTTGGCGACAAACAAGATAAGAAAATAGCTCCGGAACTCGTCGTTCAAT
AGAAGTACCCCTGAATGAGAGGATTTGTCTGCAAGTGGGGTCCCAGTGTAGCACCAATGAGAGTGAGAAGCCTAG
CATTTTGGTTGAAAAATGCATCTCACCCCCAGAAGGTGATCCTGAGTCTGCTGTGACTGAGCTTCAATGCATTTG
GCACAACCTGAGCTACATGAAGTGTCTTGGCTCCCTGGAAGGAATACCAGTCCCGACACTAACTATACTCTCTA
CTATTGGCACAGAAGCCTGGAAAAAATTCATCAATGTGAAAACATCTTTAGAGAAGGCCAATACTTTGGTTGTTT
CTTTGATCTGACCAAAAGTGAAGGATTCCAGTTTTGAACAACACAGTGTCCAAATAATGGTCAAGGATAATGCAGG
AAAAATTAAACCATCCTTCAATATAGTGCCTTTAACTTCCCGTGTGAAACCTGATCCTCCACATATTAACCACT
CTCCTTCCACAATGATGACCTATATGTGCAATGGGAGAATCCACAGAATTTTATTAGCAGATGCCTATTTTATGA
AGTAGAAGTCAATAACAGCCAACTGAGACACATAATGTTTTCTACGTCCAAGAGGCTAAATGTGAGAATCCAGA
ATTTGAGAGAAATGTGGAGAATACATCTTGTTCATGGTCCCTGGTGTCTTCTGATACTTTGAACACAGTCAG
AATAAGAGTCAAAACAAATAAGTTATGCTATGAGGATGACAACTCTGGAGTAATTGGAGCCAAGAAATGAGTAT
AGGTAAGAAGCGCAATTCACACTCTACATAACCATGTTACTCATTGTTCCAGTCATCGTCGCAGGTGCAATCAT
AGTACTCCTGCTTTACCTAAAAAGGCTCAAGATTATTATATTCCCTCCAATTCCTGATCCTGGCAAGATTTTTAA
AGAAATGTTTGGAGACCAGAATGATGATACTCTGCACCTGGAAGAAGTACGACATCTATGAGAAGCAAACCAAGGA
GGAAACCGACTCTGTAGTGTCTGATAGAAAACCTGAAGAAAGCCTCTCAGTCATGGAGATAATTTATTTTACCTT
CACTGTGACCTTGAGAAGATTCTTCCCATTTCTCATTGTTATCTGGGAACCTATTAAATGGAACTGAACTAC
TGCACCATTTAAAAACAGGCAGCTCATAAGAGCCACAGGTCTTTATGTTGAGTCGCGCACCGAAAACTAAAAAT
AATGGGCGCTTTGGAGAAGAGTGTGGAGTCATTCTCATTGAATTATAAAAGCCAGCAGGCTTCAAACCTAGGGGAC
AAAGCAAAAAGTGATGATAGTGGTGGAGTTAATCTTATCAAGAGTTGTGACAACTTCTGAGGGATCTATACTTG
CTTTGTGTTCTTTGTGTCAACATGAACAAATTTTATTTGTAGGGGAACCTCATTGAGGGTGCAATGCTAATGTCA
AACTTGAGTCACAAAGAACATGTAGAAAACAAATGGATAAAATCTGATATGTATTGTTTGGGATCCTATTGAAC
CATGTTTGTGGCTATTAAAACTCTTTTAAACAGTCTGGGCTGGGTCCGGTGGCTCACGCCTGTAATCCCAGCAATT
TGGGAGTCCGAGGCGGGCGGATCACTCGAGGTGAGGAGTTCCAGACCAGCCTGACCAAAATGGTGAAAACCTCCTC
TCTACTAAAACTACAAAAATTAACCTGGGTGTGGTGGCGCGTGCCTGTAATCCCAGCTACTCGGGAGCTGAGGCA
GGTGAATTGTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCAGAGATCACACCACTGCACTCTAGCCTGGGTGAC
AGAGCAAGACTCTGTCTAAAAAACAAACAAACAAACAAACAAACAAACAAACCTCTTAATATTCTGGAGTCATCA
TTCCCTTCGACAGCATTTTCTCTGCTTTGAAAGCCCCAGAAATCAGTGTTGGCCATGATGACAACTACAGAAAA
ACCAGAGGCAGCTTCTTTGCCAAGACCTTTCAAAGCCATTTTAGGCTGTTAGGGGCAGTGGAGGTAGAATGACTC
CTTGGGTATTAGAGTTTCAACCATGAAGTCTCTAACAATGTATTTTCTTACCTCTGCTACTCAAGTAGCATTTA
CTGTGTCTTTGGTTTGTGCTAGGCCCCCGGGTGTGAAGCACAGACCCCTTCCAGGGGTTTACAGTCTATTGAGA
CTCCTCAGTTCTTGCCACTTTTTTTTTTAACTCTCCACCAGTCATTTTTTCAGACCTTTTAACTCCTCAATTCCAAC
ACTGATTTCCCTTTTGCATTCTCCCTCCTTCCCTTCTTGTAGCCTTTTGACTTTCATTGGAATTAGGATGTA
AATCTGCTCAGGAGACCTGGAGGAGCAGAGGATAATTAGCATCTCAGGTTAAGTGTGAGTAATCTGAGAAACAAT
GACTAATTCTTGCAATTTTGTAACTTCCATGTGAGGGTTTTTCAGCATTGATATTTGTGCATTTTCTAAACAGAG
ATGAGGTGGTATCTTCACGTAGAACATTGGTATTGCTTGGAGAAAAAAGAATAGTTGAACCTATTTCTCTTTCT
TTACAAGATGGGTCCAGGATTCTCTTTTCTCTGCCATAAATGATTAATTAATAGCTTTTGTGTCTTACATTGG
TAGCCAGCCAGCCAAGGCTCTGTTTATGCTTTTGGGGGGCATATATTGGGTTCCATTCTCACCTATCCACACAAC
ATATCCGTATATATCCCCCTCTACTCTTACTTCCCCCAAATTTAAGAAGTATGGGAAATGAGAGGCATTTCCCCC
ACCCCATTTCTCTCCTCACACACAGACTCATATTACTGGTAGGAACCTTGAGAACCTTTATTTCCAAGTTGTTCAA
CATTTACCAATCATATTAATACAATGATGCTATTTGCAATTCCTGCTCCTAGGGGAGGGGAGATAAGAAACCTC
ACTCTCTACAGTTTGGGTACAAGTGGCAACCTGCTTCCATGGCCGTGTAGAAGCATGGTGCCCTGGCTTCTCTG
AGGAAGCTGGGGTTTCATGACAATGGCAGATGTAAAGTTATTCTTGAAGTCAGATTGAGGCTGGGAGACAGCCGTA
GTAGATGTTCTACTTTGTTCTGCTGTTCTCTAGAAAGAATATTTGGTTTTCTGTATAGGAATGAGATTAATTC
TTTCCAGGTATTTATAATCTGGGAAGCAAACCCATGCCTCCCCCTAGCCATTTTACTGTTATCCTATTTAG
ATGGCCATGAAGAGGATGCTGTGAAATTCCCAACAAACATTGATGCTGACAGTCATGCAGTCTGGGAGTGGGGAA

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FIGURE 897B

GTGATCTTTTGTTCCTCCTCTTTTAGCAGTAAAATAGCTGAGGGAAAAGGGAGGGAAAAGGAAGTTATGG
GAATACCTGTGGTGGTTGTGATCCCTAGGTCTTGGGAGCTCTTGGAGGTGTCTGTATCAGTGGATTTCCCATCCC
CTGTGGGAAATTAGTAGGCTCATTACTGTTTTAGGTCTAGCCTATGTGGATTTTTTCCTAACATACCTAAGCAA
ACCCAGTGTGAGGATGGTAATTCTTATTCTTTCGTTTCAGTTAAGTTTTTCCCTTCATCTGGGCACTGAAGGGATA
TGTGAAACAATGTTAACATTTTTGGTAGTCTTCAACCAGGGATTGTTTCTGTTTAACTTCTTATAGGAAAGCTTG
AGTAAAATAAATATTGTCTTTTTGTATGTCAAGCGGGCCGCCACCGCGGTGGAAACTCCAGCTT

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FIGURE 898

MEWPARLCGLWALLLCAGGGGGGGGAAPTETQPPVTNLSVSVENLCTVIWTWNPPEGASSNCSLWYFSHF'GDKQD
KKIAPETRRSIEVPLNERICLQVGSQCSTNESEKPSILVEKCISPPEGDPESAVTELQCIWHNLSYMKCSWLPGR
NTSPDTNYTLYYWHRSLLEKIHQCENIFREGQYFGCSFDLTKVKDSSFEQHSVQIMVKDNAGKIKPSFNIVPLTSR
VKPDPPHIKNLSFHNDLYVQWENPQNFISRCLFYEEVENNSQTETHNVFYVQEAKCENPEFERNVENTSCFMVP
GVLPTLNTVRIRVKTNLKYEDDKLWSNWSQEMSIGKKRNSTLYITMLLIVPVIVAGAIIVLLLYLKRLKIIIF
PPIPDPGKIFKEMFGDQNDLHWKKYDIYEKQTKETDSVLIENLKKASQ

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FIGURE 899

GCTCTACAATTGAATGAGCTCACCATGGATGATGATACCGCTGTGCTCGTCATTGACAACGGCTCTGGCATGTGC
AAGGCCGGCTTTGCGGGCGACGATGCCCCCAGGCTGTCTTCCCTTCTATCGTGGGGCGCCCCAGGCACCAGGGC
ATGATGGAGGGCATGCATCAGAAGGAGTCCTATGTGGGCAAAGAGGCCCAGAGCAAGAGAGGCATGCTGACCCTG
AAGTACCCCATGGAGCATGGCATCATCACCAACTGGGACGACATGGAGAAGATCTGGCACCACACCTTCTACAAT
GAGCTGCGTGTGGCTCCTGAGGAGCACCCCATCCTGCTGACTGAGGCCCCCTGAACCCCAAGGCCAACCGTGAG
AAGATGACCCAGATCATGTTTGAGACCTTCAACACCCAGCCATGTACGTGGCCATCCAGGCCGTGCTGTCCCTA
TACACCTCTGGCCGTACTACTGGCATCGTGATGGACTCTGGTGATGGGTTACCCACACTGTGCCCATCTATGAG
GGGAATGCCCTCCCCATGCCACCCTGCGCCTAGACCTGGCTGGGGCGGGAAGTACTGACTACTACCTCATGAAGATC
CTCACCGAGCGTGCTATAGGTTACCACCACGGCCGAGCAGGAAATTGTGCGTGACATCAAAGAGAAGCTGTGC
TATGTTGCCCTGGACTCCGAGCAGGAGATGGCCATGGCAGCCTCCAGCTCCTCCGTAGAGAAGAGCTACGAGCTG
CCCGATGGTCAGGTCATCACCATCGGCAACGAGCGGTTCCGCTGCCCCGAGGCGCTCTTCCAGCCTTGCTTCCTG
GGCATGGAATCCTGTGGCATCCACAAAACCTACCTTCAACTCCATAGTGAAGTCTGATGTGGACATCCGCAAAGAC
CTGTACACCAACACAGTGCTGTCTGGCGGCACCACCATGTACCCTGGCATCGCCACAGGATGCAGAAGGAGATC
ACTGCCCTGGCGCCTAGCATTATGAAGATCAAGATCATTGCTCCTCCCAAGCGCAAGTACTCCGTGTGGGTGGT
GGCTCCATCCTGGCCTCGCTGTCCACCTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGATGAGTCAGGCCCC
TCCATTGTCCACCGCAAATGCTTCTTAGGTGGACTCTGACTTAGTTGCGTTACACCCTTTCTTGACAAAACCAAAC
TTCTCAGAAAACAACATGAGATTGGCGTGGCTTTATTTGTTTTCTTGTTTCATTTTTTGTTTTGTTTTTATTGG
CTTGACTCAGGATTTGAAAACCGGAACGGCGAAGGTGATAGTAGTCGGTTGGAGCGAGCTTCCCCCAAAGTTCTA
CAATGTGGCCAAGGACTTTGATTGTACATTGTTCTTCTTTTCAATAGTCAT

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FIGURE 900

MDDDTAVLVIDNGSGMCKAGFAGDDAPQAVFPSIVGRPRHQGMMEGMHQKESYVGKEAQSKRGMLTLKYPMEHGI
ITNWDDMEKIWHHTFYNELRVAPEEHPILLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYTSGRTTG
IVMDSGDGFTHTVPIYEGNALPHATLRDLAGRELTDYLMKILTERGYRFTTTAEQEIVRDIKEKLCYVALDSEQ
EMAMAASSSSVEKSYELPDGQVITIGNERFRCPALFQPCFLGMESCGIHKTTFNSIVKSDVDIRKDLYTNTVLS
GGTTMYPGIAHRMQKEITALAPSIMKIKI IAPPKRKYSVWVGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF

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FIGURE 901

GTTACGCTGACGTCCCAAATCTTGGAAGTTTTGTCCCCATTTGCTTTCTGCTTCTGGGGACAAAAC TTCCAAGA
TTTGGGACGTCAGCGTGAAC TCCGTGGTCAGCACATTTCCCATGGGCTCCACGGTTCTGGACCAGCAGCTGGGCT
GCTTATGGCAGAAGGACCACCTGCTCAGTGTCTCCCTGTCCGGGTACATCAACTATCTGGACAGAAACAACCCCA
GCAAGCCCCTGCACGTCATCAAGGGTCACAGTAAATCGATCCAGTGTCTGGGAAGCTGAGGATCTGGGATACCAC
GCAGAAGGAGCACCTGTTGAAGTATGAGTACCAGCCTTTTCGCTGGGAAGATCAAAGACATTGCTTGGACTGAAGA
CAGTAAGAGGATCGCCCGTGGTCGGGGGAAGGAAGGGAGAAGTTTGAGCAGTCTTCCTCTGGGATAGTGGCTCTT
CTGTGGGCGAGATTACAGGACACAACAAAGTCATCAACAGCGTGGCATCAAGCAGAGCCGCCATACCGCTGGCAC
GGGAAGCGATGATAACTGCGCGCATTCTTTGAGGGACCCCCATTCAAGTTCAAGTTCACAGTTGGCGCCACAGCC
GTTTGTCAACTGTGTGCGATTCTCTCAAGAGCAAAGGTTAATTTAAGGACAAAGATGAAGTCCTGTAAACTAATC
TGTCATTGTTTTACCTTCCTTTCTTTTTCAGTGCGGAATTAAGTAAGTTTAAAGCACCTGATTGGGAGTGTTT
TGCGTGTTTCGGAATCACTTGTAATGTTGGCTGAGACAATCCTTCCTTGCACTTTGAAACACTTTGAGCCTTTAAG
AGATAGCCTGAGAATAATAAATTCTTTTCTTTTAAAAAAAAAAAAAAAAATTTAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 902

MSTSLSLGRSKTLLGLKTVRGSPVVGE GREKFGAVFLWDSGSSVGEITGHNKVINŞVASSRAAIPLAREAMITAR
IL

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FIGURE 903

CAAAATCTCAACCATGATCTTTGAGATGGCAAAGGTTTTAAATACGTTTTGGAAATATACTCATTGGTATATTTCT
TTTGAGAAGGCTGAAATGTAGCTGGGGACAGCAGGTTGATCACAAGGGACGATGATATGAGGTAAGCACACAAGA
GCTATGGACAAGACAAGGTCTAAAGGATTTTGAATACAAAGCAGAAATATTTGACCTTCTCATTCTGGGGTGG
GAGTGGGGAGTGTTTCATTAAGTACATATGACAAGAGGGAGTGTTGGGGAGAAGGTGAAACAGTAGACTACATTTAT
GGATTAAGTAGGGAATGTGAACAAAGATGTTAAAGTTCATGGCGATCCGGTAGACAGATTACACAGAAGGGGACCG
AAGATGAAGTGGACAAATACTCTGAGGCTCTCAAAGATGCCAGGAGAAGCTGGAGCTGGCAGAGAAAAAGGCCA
CCGATGCTGAAGCCGACGTAGCTTCTCTGAACAGACGCATCCAGCTGGTTGAGGAAGAGTTGGATCGTGCCCAGG
AGCGTCTGGCAACAGCTTTGCAGAAGCTGGAGGAAGCTGAGAAGGCAGCAGATGAGAGTGAGAGAGGCATGAAAG
TCATTGAGAGTCGAGCCCAAAAAGATGAAGAAAAAATGGAAATTCAGGAGATCCAAGTAAAGAGGCCAAGCACA
TTGCTGAAGATGCCGACCGCAAATATGAAGAGGTGGCCCGTAAGCTGGTCATCATTGAGAGCGACCTGGAACGTG
CAGAGGAGCGGGCTGAGCTCTCAGAAGGCCAAGTCCGACAGCTGGAAGAACAATTAAGAATAATGGATCAGACCT
TGAAAGCATTAAATGGCTGCAGAGGATAAGTACTCGCAGAAGGAAGACAGATATGAGGAAGAGATCAAGGTCCTTT
CCGACAAGCTGAAGGAGGCTGAGACTCGGGCTGAGTTGCGGAGAGGTCAGTAACTAAATTGGAGAAAAGCATTG
ATGACTTAGAAGAGAAAAGTGCTCATGCCAAAGAAGAAAACCTTAGTATGCATCAGATGCTGGATCAGACTTTACT
GGAGTTAAACAACATGTGAAAACCTCCTTAGCTGCGACCACATTCTTTCAATTTGTTTTGTTTTGTTTTGTTTT
AAACACCTGCTTACCCCTTAAATGCAATTTATTTACTTTTACCACTGTCACAGAAACATCCACAAGATAACAGCT
AGGTCAGGGGGTGGGGAAAACACATACAAAAGCAAGCCCATGTGAGGGCGATCCTGGTTCAAATGTGCCATTC
CCGGTTGATGCTGCCACACTTTGTAGAGAGTTAGCAACACAGTGTGCTTAGTCAGTGTAGGAATCCTCACTAA
AGCAGAAGAAGTTCCATTCCTTTCTGATTGGCACACGTGCAGCTCATGACAATCTGTAGGATAACAATCAGTGTG
GATTTCCACTCTTTTCAGTCCTTCATGTTAAAGATTTAGACACCACATACAACCTGGTAAAGGACGTTTTCTTGAG
AGTTTTAACTATATGTAAACATTGTATAATGATATGGAATAAAATGCACATTTTAGGACATTTTCTAAA

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FIGURE 904

MLKSWRSGRQITQKGTEDELDKYSEALKDAQEKLELAEKKATDAEADVASLNRRIQLVEEELDRAQERLATALQK
LEEAKEKADESERGMKVIESRAQKDEEKMEIQEIQLKEAKHIAEDADRKYEEVARKLVIIESDLERAEEERAELSE
GQVRQLEEQLRIMDQTLKALMAAEDKYSQKEDRYEEEIKVLSDKLKEAETRAEFAERSVTKLEKSIDDLEEKVLM
PKKKTLCIRCWIRLYWS

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FIGURE 905

TGCGGCCGCACCTGCAGGCGCAGAGTAGGTATGGAAGATCCCTCGAGATCCATTGTGCTCTAAAGCCGCCGGGGG
TCCGTGTCCTGTCTCGGTTGGCCGGACCCGGGCCCGAGCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCAT
AGACCTGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAG
CGACCGCTGCACGCCGGCTTGCAATTTCTTTTGGTCCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGT
AATTTCTAATGCAAAGAACACAGTCCAAGGATTTAAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGA
GGCAGAAAAATCTAACCTTGCAATATGATATTGTGCAGTGGCCTACAGGATTAACAGGTATAAAGGTGACATATAT
GGAGGAAGAGCGAAATTTTACCAGTGAAGTGAAGTGGCCTGCTTTTGTCCAAACTGAAGGAGACAGCCGAAAG
TGTTCTTAAGAAGCCTGTAGTTGACTGTGTTGTTTCGGTTCCCTTGTTTCTATACTGATGCAGAAAGACGATCAGT
GATGGATGCAACACAGATTGCTGGTCTTAATTGCTTGCGATTAATGAATGAAACCACTGCAGTTGCTCTTGATA
TGGAATCTATAAGCAGGATCTTCCTCGCTTAGAAGAGAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTC
TGCTTATCAAGTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATT
GGGAGGTAGAAAATTTGATGAAGTGTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACAT
TAAGTCCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGC
TTCAGATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAACCTATGAATAGAGGCAAATT
TCTGGAGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCCTTCGTAGTGTTTTGGAACAAACCAAGTTAAA
GAAAGAAGATATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAA
ATTTTTCGGTAAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACCTCGAGGCTGTGCATTGCAGTGTGC
CATCTTATCGCCTGCTTTCAAAGTCAGAGAATTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATG
GAATTCCTCAGCTGAAGAAGGGTCAAGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGT
TCTTACATTTTATAGAAAGGAACCTTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGA
TCCTGCTATAGCTCAGTTTTAGTTTCAAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAGTGAAAGTCAA
AGTTCGAGTAAATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTTACAAGTCTGAGGAAAA
TGAGGAGCCAATGGAAACAGATCAGAAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCACATGT
TGAAGAGCAACAGCAGCAGACACCAGCAGAAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATC
CAAGGATAAAAAGATGGACCAACCACCCCAATGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAA
TCGAGAATCAGCTATATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCAT
GCAGGATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGGAGG

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FIGURE 906

MSVVGIDLGFGSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAKSQVISNAKNTVQGFKRFGRAF
SDPFVEAEKSNLAYDIVQWPTGLTGIKVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVP CFYTD
AERRSVMDATQIAGLNCRLMNETTAVALAYGIYKQDLPRLEEKPRNVVFVDMGHSAYQVSVCAFNRGKLKVLAT
AFDTTLGGRKFDEVLVNHFC EEF GK KY KLDIKSKIRALLRLS QECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPA FKVREFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYPDPAIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVHKSEENEPMETDQNAKEEEKMQVD
QEEPHVEEQQQQTPAENKAESEEMETSQAGSKDKKMDQPPQCQEGKSEDQYCGPANRESAIWQIDREMLNLYIEN
EGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEKFVSEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQESEERP NYLKN

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FIGURE 907

GGGCTGCCGTGTGACGCGCGGCGCGGTTCGGTCCTGCCTGTAACGGCGGGCGGGCTGCTGCTCCAGACACCTGCGG
CGGCGGGCGGCGACCCCGCGGCGGGCGCGGAGATGTGGCCCCCTGGTAGCGGCGCTGTTGCTGGGCTCGGCGTGCTG
CGGATCAGCTCAGCTACTATTTAATAAAAACAAAATCTGTAGAATTCACGTTTTGTAATGACACTGTCGTCATTCC
ATGCTTTGTTACTAATATGGAGGCACAAAACACTACTGAAGTATACGTAAAGTGGAATTTAAAGGAAGAGATAT
TTACACCTTTGATGGAGCTCTAAACAAGTCCACTGTCCCCACTGACTTTAGTAGTGCAAAAATTGAAGTCTCACA
ATTACTAAAAGGAGATGCCTCTTTGAAGATGGATAAGAGTGATGCTGTCTCACACACAGGAACTACACTTGTGA
AGTAACAGAATTAACCAGAGAAGGTGAAAACGATCATCGAGCTAAAATATCGTGTTGTTTCATGGTTTTCTCCAAA
TGAAAATATTCTTATTGTTATTTTCCCAATTTTTGCTATACTCCTGTTCTGGGGACAGTTTGGTATTAAAACACT
TAAATATAGATCCGGTGGTATGGATGAGAAAAACAATTGCTTTACTTGTGCTGGACTAGTGATCACTGTCATTGT
CATTGTTGGAGCCATTCTTTTCGTCCCAGGTGAATATTCATTAAAGAATGCTACTGGCCTTGGTTTTAATTGTGAC
TTCTACAGGGATATTAATATTACTTCACTACTATGTGTTTAGTACAGCGATTGGATTAACTCCTTCGTCATTGC
CATATTGGTTATTTCAGGTGATAGCCTATATCCTCGCTGTGGTTGGACTGAGTCTCTGTATTGCGGCGTGATACC
AATGCATGGCCCTCTTCTGATTTTCAGGTTTGAGTATCTTAGCTCTAGCACAACTTGGACTAGTTTATATGAA
ATTTGTGGCTTCCAATCAGAAGACTATACAACCTCCTAGGAAAGCTGTAGAGGAACCCCTTAATGCATTCAAAGA
ATCAAAGGAATGATGAATGATGAATAACTGAAGTGAAGTGATGGACTCCGATTTGGAGAGTAGTAAGACGTGAA
AGGAATACACTTCTGTTTAAGCACCATGGCCTTGATGATTCACCTGTTGGGGAGAAGAAACAAGAAAAGTAAGTGG
TTGTCACCTATGAGACCCTTACGTGATTGTTAGTTAAGTTTTTTATTCAAAGCAGCTGTAATTTAGTTAATAAAAT
AATTATGATC

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FIGURE 908

MWPLVAALLLGSACCGSAQLLFNKTKSVEFTFCNDTVVIPCFVTNMEAQNTTEVYVKWKFKGRDIYTFDGALNKS
TVPTDFSSAKIEVSQLLKGDASLKMDKSDAVSHTGNYTCEVTELTREGETIIECLKYRVVSWFSPNENILIVIFPI
FAILLFWGQFGIKTLKYRSGGMEKTIALLVAGLVITVIVIVGAILFVPGEYSLKNATGLGLIVTSTGILILLHY
YVFSTAIGLTSFVIAILVIQVIAYILAVVGLSLCIAACIPMHGPLLISGLSILALAQLLGLVYMKFVASNQKTIQ
PPRKAVEEPLNAFKESKGMMNDE

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FIGURE 909

CCTCCTACACCTTCAGCACCCCTGCCCAGCTACTCCTGCTGGACCAAAGGGAAGGGTGTTTGTAGCCCTCTTGCA
AAGAAGTTGGCAGTAGAGAAAGGGATTGATCTTACACAAGTAAAAGGGACAGGACCAGATGGTAGAATCACCAAG
AAGGATATCGACTCTTTTGTGCCTAGTAAAGTTGCTCCTGCTCCGGCAGCTGTTGTGCCTCCACAGGTCCTGGA
ATGGCACCAGTTCCTACAGGTGTCTTCACAGATATCCCAATCAGCAACATTCGTCGGGTTATTGCACAGCGATTA
ATGCAATCAAAGCAAACCATACTCATTATTACCTTTCTATCGATGTAAATATGGGAGAAGTTTTGTTGGTACGG
AAAGAACTTAATAAGATATTAGAAGGGAGAAGCAAAATTTCTGTCAATGACTTCATCATAAAACGTTTCAGCTTTG
GCATGTTTAAAAGTTCCCGAAGCAAATTCTTCTTGGATGGACACAGTTATAAGACAAAATCATGTTGTTGATGTC
AGTGTTCGGGTCAGTACTCCTGCAGGACTCATCACACCTATTGTGTTTAAATGCACATATAAAAGGAGTGGAACC
ATTGCTAATGATGTTGTTTCTTTAGCAACCAAAGCAAGAGAGGGTAAACTACAGCCACAT

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FIGURE 910

TGGCAAAATCCTGGAGCCAGAAGAAAGGACAGCAGCATTGATCAATCTTACAGCTAACATGTTGTACCTGGAAAA
CAATGCCCAGACTCAATTTAGTGAGCCACAGTACACGAACCTGGGGCTCCTGAACAGCATGGACCAGCAGATTTCG
GAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGCGCAGAACAGCGTCACGGCGCCCTCGCCCTACGC
ACAGCCCAGCCCCACCTTCGATGCTCTCTCTCCATCACCCGCCATCCCCCTCAACACCGACTACCCAGGCCCGCA
CAGTTCCGACGTGTCTTCCAGCAGTCGAGCACCGCCAAGTCGGCCACCTGGACGTATTCCACTGAACTGAAGAA
ACTCTACTGCCAAATTGCAAAGACATGCCCCATCCAGATCAAGGTGATGACCCACCTCCTCAGGGAGCTGTTAT
CCGCGCCATGCCTGTCTACAAAAAGCTGAGCACGTCACGGAGGTGGTGAAGCGGTGCCCCAACCATGAGCTGAG
CCGTGAGTTCAACGAGGGACAGATTGCCCTCCTAGTCATTTGATTTCGAGTAGAGGGGAACAGCCATGCCAGTA
TGTAAGAATCCCATCACAGGAAGACAGAGTGTGCTGGTACCTTATGAGCCACCCAGGTTGGCACTGAATTCAC
GACAGTCTTGTACAATTTTCATGTGTAAACAGCAGTTGTGTTGGAGGGATGAACCGCCGTCCAATTTTAATCATTGT
TACTCTGGAAACCAGAGATGGGCAAGTCCTGGGCCGACGCTGCTTTGAGGCCCGGATCTGTGCTTGCCAGGAAG
AGACAGGAAGGCGGATGAAGATAGCATCAGAAAGCAGCAAGTTTCGGACAGTACAAAGAACGGTGATGGTACGAA
GCGCCCGTTTCGTGAGAACACACATGGTATCCAGATGACATCCATCAAGAAACGAAGATCCCAGATGATGAACT
GTTATACTTACCAGTGAGGGGCGGTGAGACTTATGAAATGCTGTTGAAGATCAAAGAGTCCCTGGAACATCATGCA
GTACCTTCCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAGCAGCAGCACCAGCACTTACTTCAGAAACA
GACCTCAATACAGTCTCCATCTTCATATGGTAACAGCTCCCCACCTCTGAACAAAATGAACAGCATGAACAAGCT
GCCTTCTGTGAGCCAGCTTATCAACCCTCAGCAGCGCAACGCCCTCACTCCTACAACCATTCTGATGGCATGGG
AGCCAACATTCCCATGATGGGCACCCACATGCCAATGGCTGGAGACATGAATGGACTCAGCCCCACCCAGGCACT
CCCTCCCCCACTCTCCATGCCATCCACCTCCCACTGCACACCCCCACCTCCGTATCCCACAGATTGCAGCATTGT
CAGTTTCTTAGCGAGGTTGGGCTGTTTCATCATGTCTGGACTATTTACGACCCAGGGGCTGACCACCATCTATCA
GATTGAGCATTACTCCATGGATGATCTGGCAAGTCTGAAAATCCCTGAGCAATTTTCGACATGCGATCTGGAAGGG
CATCCTGGACCACCGGCAGCTCCACGAATTCTCCTCCCTTCTCATCTCCTGCGGACCCCAAGCAGTGCCTCTAC
AGTCAGTGTGGGCTCCAGTGAGACCCGGGGTGAGCGTGTTATTGATGCTGTGCGATTACCCCTCCGCCAGACCAT
CTCTTTCCCACCCCGAGATGAGTGGAATGACTTCAACTTTGACATGGATGCTCGCCGCAATAAGCAACAGCGCAT
CAAAGAGGAGGGGGAGTGAAGCCTCACCATGTGAGCTCTTCCTATCCCTCTCCTAACTGCCAGCCCCCTAAAAGCA
CTCCTGCTTAATCTTCAAAGCCTTCTCCCTAGCTCCTCCCTTCTCCTTGTCTGATTTCTTAGGGGAAGGAGAAG
TAAGAGGCTACCTCTTACCTAACATCTGACCTGGCATCTAATTCTGATTCTGGCTTTAAGCCTTCAAACTATAG
CTTGCAAGACTGTAGCTGCCATGGCTAGGTAGAAGTGAGCAAAAAGAGTTGGGTGTCTCCTTAAGCTGCAGAGA
TTTCTCATTGACTTTTATAAAGCATGTTACCCCTTATAGTCTAAGACTATATATATAAATGTATAAATATACAGT
ATAGATTTTTTGGGTGGGGGGCATTGAGTATTGTTTAAATGTAATTTAAATGAAAGAAAATTGAGTTGCACCTTAT
TGACCATTTTTTAATTTACTTGTTTTGGATGGCTTGCTCTATACTCCTTCCCTTAAGGGGTATCATGTATGGTGAT
AGGTATCTAGAGCTTAATGCTACATGTGAGTGCGATGATGTACAGATTCTTTTCAGTTCTTTGGATTCTAAATACA
TGCCACATCAAACCTTTGAGTAGATCCATTTCCATTGCTTATTATGTAGGTAAGACTGTAGATATGTATTCTTTT
CTCAGTGTGGTATATTTTATATTACTGACATTTCTTCTAGTGATGATGGTTCACGTTGGGGTGATTTAATCCAG
TTATAAGAAGAAGTTTCATGTCCAACGGTCCTCTTTAGTTTGTGGTGGGAATGAGGAAAATCTTAAAGGGCCC
ATAGCAGCCAGTTCAAAAACACCCGACGTCATGTTTGTAGCATATCAGTAACCCCTTAAATTTAATACCCAGA
TACCTTATCTTACAATGTTGATTGGGAAAACATTTGCTGCCATTACAGAGGTATTAAACTAAATTTCACTACT
AGATTGACTAACTCAAATACACATTTGCTACTGTTGTAAGAATTC

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FIGURE 911

MLYLENNAQTQFSEPQYTNLGLLNSMDQQIRNGSSSTSPYNTDHAQNSVTAPSPYAQPSPTFDALSPSPAIPSN
DYPGPHSSDVSFQQSSTAKSATWTYSTELKKLYCQIAKTCPIQIKVMTPPPQGAVIRAMPVYKKAHEHVTEVVKRC
PNHELSTREFNEGQIAPPSHLIRVEGNSHAQYVEDPITGRQSVLPYEPQVGTFTTVLYNFMCSNSSCVGGMNRR
PILIIVTLETRDGQVLGRRCFEARICACPGDRKKADEDSIRKQQVSDSTKNGDGTKRPFQNTHTGIMTSIKKRR
SPDDELLYLPVRGRETYEMLLKIKESLELMQYLPQHTIETIRQQQQQHQHLLQKQTSIQSPSSYGNSSPPLNKM
NSMNKLPVSQQLINPQQRNALPTTIPDGMGANIPMMGTHMPMAGDMNGLSPTQALPPPLSMPSTSHCTPPPPYP
TDCSIVSFLARLGCSSCLDYFTTQGLTTIYQIEHYSMDDLASLKIPEQFRHAIWKGILDHRQLHEFSSPSHLLRT
PSSASTVSVGSSETRGERVIDAVRFTLRQTISFPFRDEWDFNFDMDARRNKQQRKEEGE

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FIGURE 912

CTATAAATTAAGGATCCAGCTACTTAATTGACTTATGCTTCCTAGTTCGTTGCCAGCCACCACCGTCTCTCCA
AAAACCCGAGGTCTCGCTAAAATCATCATGATTCACTTGGCGCCGTCAGCACTCGACTTGGGTTTGATCTTTTC
AAAGAGCTGAAGAAAACAAATGATGGCAACATCTTCTTTTCCCCTGTGGGCATCTTGACTGCAATTGGCATGGTC
CTCCTGGGGACCCGAGGAGCCACCGCTTCCCAGTTGGAGGAGGTGTTTCACTCTGAAAAAGAGACGAAGAGCTCA
AGAATAAAGGCTGAAGAAAAAGAGGTGATTGAGAACACAGAAGCAGTACATCAACAATTCCAAAAGTTTTTGACT
GAAATAAGCAAACCTACTAATGATTATGAACTGAACATAACCAACAGGCTGTTTGGAGAAAAACATACCTCTTC
CTTCAAAAATACTTAGATTATGTTGAAAAATATTATCATGCATCTCTGGAACCTGTTGATTTTGTAATGCAGCC
GATGAAAGTCGAAAGAAGATTAATTCTGGGTTGAAAGCAAAAACAAATGAAAAATCAAGGACTTGTTCCCAGAT
GGCTCTATTAGTAGCTCTACCAAGCTGGTGCTGGTGAACATGGTTTATTTTAAAGGGCAATGGGACAGGGAGTTT
AAGAAAGAAAATACTAAGGAAGAGAAATTTTGGATGAATAAGAGCACAAGTAAATCTGTACAGATGATGACACAG
AGCCATTCCTTTAGCTTCACTTTCTGGAGGACTTGCAGGCCAAAATCTAGGGATTCCATATAAAAAACAACGAC
CTAAGCATGTTTGTGCTTCTGCCCAACGACATCGATGGCCTGGAGAAGATAATAGATAAAATAAGTCTTGAGAAA
TTGGTAGAGTGGACTAGTCCAGGGCATATGGAAGAAAGAAAGGTGAATCTGCACTTGCCCCGGTTTGAGGTGGAG
GACGGTTACGATCTAGAGGCGGTCTGGCTGCCATGGGGATGGGCGATGCCTTCAGTGAGCACAAAGCCGACTAC
TCGGGAATGTCGTCAGGCTCCGGGTGTACGCCAGAAGTCTCTGCACAGTTCCTTTGTGGCAGTAACTGAGGAA
GGCACCAGGCTGCAGCTGCCACCGGCATAGGCTTTACTGTACATCCGCCCCAGGTCAAGAAATGTTCACTGC
AATCATCCCTTCTGTCTTCTCATCAGGCACAATGAATCCAACAGCATCCTCTTCTTCGGCAGATTTTCTTCTCTCT
TAAGATGATCGTTGCCATGGCATTGCTGCTTTTAGCAAAAAACAACCTACCAGTGTTACTCATATGATTATGAAAA
TCGTCCATTCTTTTAAATGTTGTCTCACTGCATTCCAGTCTTGGCCATCAAATCAATGATTTAATGACTCCAA
TAATGTGTGTGTTTATAACCATCCTCGAAAGTGAAATGTCTTTTTTTTTGTGCCATGCGTAAGGTGAGTCAAACC
AAACCTCATTGATAATCTCCCCTTTGGTTTCTTTGAAAGTAAATGGTATCTTGTAGTTTTGTGCACACGAAAG
GAGAGAAAGTTTCTCCAGTAAAGAGTACGAACTAGTAATTTTGGGGGGTCTCTCTAATTCTGGTATTTTGACATG
TTATAATACGCAAGTAAATAAAACAATAGTTTACTCAGCTCATGTTACTATTCCCCAACAGATATTGTGGCAAA
TCACACATAGGAAAGAGGATTTGGGAATACAGTAGCAAAACATAAATTAAACTCAAATGCCCAGGACAAAATAA
AACAAATATACCAGATGGAGAGGATGCCCCGATTTTCATCTTCCATTCTAACATTATCCATTGTTAGATGCATAAG
CATTTTGTATATTGTGTAATAAATGTGGTATTTGAGAAGATAAATGATGTAGTTGATCAGTAATCCTCCTCTATCA
CCTTTTTAGACTTTGTAAAGGTAAATATTTGGACTAACTTTTAGAAAAGTTTCCCTTTTTTTCTCCATTTACATTT
TTCTGGTTTTTTTTTTTTTTTTTTTGTAGTGAGGTACGAGTATTACCAAATGATATTTTCTGAAGATGCTTTTTTGAA
AGCTCTGAATCTATACCTAATGCTCTTAATTATTGGCTTGTTTCATTTTTTCTCCTCAGTTTTTAACAAGATCAC
ATAACTGGCTTATTTTTAACAGCTTTGTCAAACCTACAATTTACATGCCGTAATAATGTACACACTGTAATTTTATA
ATTCATTGACTTTTAGTAAATTTTCTAGCGTTATGCATCGCCACAATCCAGTTTTAGAATATTTCCATGACCCTA
AGAAGTTTCTCATGTCTATTAATATTCCCAATCCTAGGCACCACCTGAGTTGTTTTCTGTCTTTATAAGTTTTTC
TTTCTACATCTTATATAAATGGAATCATAATACATGTAGTATTTTGTGTCTGGCGTCTTGCACTTAGCATGGTGT
TCTTGAGGTTTCTGTTGTAGTATGTATTGATACTTAGGATTTTTTTATTGCCGAATACTATTCCATTGCATGG
AAAAGACCTATTTTATTTCTAGGTTCCACAGTTGAGGGACATTTGGATTGTTCCCACTTCTTGGGCTGTTAGGAA
TAATGTTGCTCTGAACATGTAAATAAAGATCTTTGTGTTACATATGTTTTTCATTTTCTGTTGGGGAGATTCCC
TAGGCTAGAAATTGCTGGGCCATATGAAAAATCAATAGTTAGCTTTGTAAGAAACAGTCAAACCTGTTTTCCCAAC
GTGACATTTTATATTTCCACCAGGAATGTTTAAACTAGTGTCTTCAAATCCTCACCACATCCAGGATTGTGTC
TTTATGATTATAGCCATTTTTGTAGGTACAAAGTGGCATCTCATGGTGGTTTTAATTTGCATTTCCATAATATCT
AATTAGGTTGAGCTTTTTTTATGTGCTTATTGGCCATTTGTTTGACTTTGTTTGGTGAAATGTATACAAATCATT
TGCTCATTTTTTAATTTGGGTTGTCTGTCTTGTCTTCTCATTTTTATTGAGTTAAATGAGTTCCTAATAATCTCTG
CTTACAAGTCCTTAATTTATCAAATATATGATACGTGGACATTTCTCATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 913

MDSLGA VSTR LGFD LFKELKKTNDGNIFFSPVGILTAIGMVLLGTRGATASQLEEVFHSEKETKSSRIKAEKEV
IENTEAVHQOFQKFLTEISKLTNDYELNITNRLFGEKTYLFLQKYLDYVEKYYHASLEPVDFVNAADESRKKINS
WVESKTNEKIKDLFPDGSISSSTKLVLVNMVYFKGQWDREFKKENTKEEFWMNKSTSKSVQMMTQSHSFSFTFL
EDLQAKILGIPYKNNDLSMFVLLPNDIDGLEKIIDKISPEKLVEWTSPGHMEERKVNHLHLPRFEVEDGYDLEAVL
AAMGMGDAFSEHKADYSGMSSGSLYAQKFLHSSFVAVTEEGTEAAAATGIGFTVTSAPGHENVHCNHPFLFFIR
HNESNSILFFGRFSSP

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FIGURE 914

GGGAGGAGAGAAAAGCCATGGCCGACAAGGTCCTGAAGGAGAAGAGAAAAGCTGTTTATCCGTTCCATGGGTGAAG
GTACAATAAATGGCTTACTGGATGAATTATTACAGACAAGGGTGCTGAACAAGGAAGAGATGGAGAAAAGTAAAC
GTGAAAATGCTACAGTTATGGATAAGACCCGAGCTTTGATTGACTCCGTTATTCCGAAAGGGGCACAGGCATGCC
AAATTTGCATCACATACATTTGTGAAGAAGACAGTTACCTGGCAGGGACGCTGGGACTCTCAGCAGATCAAACAT
CTGGAAAATTACCTTAATATGCAAGACTCTCAAGGAGTACTTTCTTCTTTCCAGCTCCTCAGGCAGTGCAGGACA
ACCCAGCTATGCCCACATCCTCAGGCTCAGAAGGGAATGTCAAGCTTTGCTCCCTAGAAGAAGCTCAAAGGATAT
GGAAACAAAAGTCGGCAGAGATTTATCCAATAATGGACAAGTCAAGCCGCACACGTCTTGCTCTCATTATCTGCA
ATGAAGAATTTGACAGTATTCCTAGAAGAAGTGGAGCTGAGGTTGACATCACAGGCATGACAAATGCTGCTACAAA
ATCTGGGGTACAGCGTAGATGTGAAAAAAATCTCACTGCTTCGGACATGACTACAGAGCTGGAGGCATTTGCAC
ACCGCCAGAGCACAAAGACCTCTGACAGCACGTTCTGGTGTTTCATGTCATGTTATTCGGGAAGGCATTTGTG
GGAAGAAACACTCTGAGCAAGTCCCAGATATACTACAACCTCAATGCAATCTTTAACATGTTGAATACCAAGAAGT
GCCCAAGTTTGAAGGACAAACCGAAGGTGATCATCATCCAGGCCTGCCGTGGTGACAGCCCTGGTGTGGTGTGGT
TTAAAGATTCACTAGGAGTTTCTGGAAACCTATCTTTACCAACTACAGAAGAGTTTGAGGATGATGCTATTAAGA
AAGCCACATAGAGAAGGATTTTATCGCTTTCTGCTCTTCCACACCAGATAATGTTTCTTGAGACATCCACAA
TGGGCTCTGTTTTATTGGAAGACTCATTGAACATATGCAAGAATATGCCTGTTCTGTGATGTGGAGGAAATTT
TCCGCAAGGTTTCGATTTTCATTTGAGCAGCCAGATGGTAGAGCGCAGATGCCACCCTGAAAGAGTGAAGTTTGA
CAAGATGTTTCTACCTCTTCCAGGACATTAAAATAAGGAACTGTATGAATGTCTGTGGGCAGGAAGTGAAGAG
ATCGTTCTGTAAAAGTTTTTGGAATTATGTCTGCTGAATAATAAACTTTTTTTGAAATAATAAATCTGGTAGAA
AAATGAAAAAAAAAAAAAAAAAAAA

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FIGURE 915

MADKVLKEKRKL FIRSMGEGTINGLLDELLQTRVLNKEEMEKVKRENATVMDKTRALIDSVIPKGAQACQICITY
ICEEDSYLAGTLGLSADQTSIGNYLNMQDSQGVLSFPAPQAVQDNPAIPTSSGSEGNVKLCSLEEAQRIWKQKSA
EIYPIMDKSSRTRLALI ICNEEFDSIPRRTGAEVDITGMTMLLQNLGYSDVKKNLTASDMTTELEAFHRPEHK
TSDSTFLVFM SHGIREGICGKKHSEQVPDILQLNAIFNMLNTKNCPSLKD KPKVII IQACRGDSPGVVWFKDSVG
VSGNLSLPTTEEFEDDAIKKAHIEKDFIAFCSSSTPDNVSWRHPTMGSVFIGRLIEHMQEYACSDVEE IFRKVRF
SFEQPDGRAQMPTTERTVLTTRCFYLFPGH

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FIGURE 916

GAAAAGCCGCCGGTATTTCTCCACCTGGCTCTCCTCTACCTCCAGGCAGGCGCACCCGAGGTCCCCCTCCCACCC
CACCTTCTGCCCTCCCGCACACTTGGACCAGTGCTGTTGACCCGGAAGCGGACATTTCTGCAGCTATTCTAAGCA
CACGTCGGCGGAGGGAGCGGGACGTGGCCAGCGGTGAGCGGCGAAGGAGGCAGGCCCTGCGCGGGGATCACGGAA
GCCCTGTGATTACCAATGAAGTTCCAGTACAAGGAGGTCCATCCCTTTGAGTATCGGAAAAAGGAAGGAGAAAAG
ATCCGGAAGAAATATCCGGACAGGGTCCCCCTTGATTGTAGAGAAGGCTCCAAAAGCAAGGGTGCCTGATCTGGAC
AGGAGGAAGTACCTAGTGCCCTCCGACCTTACCGATGGCCAGTTCTACCTTTTAATCCGGAAGAGAATCCACCTG
AGACCTGAGGACGCCTTATTCTTCTTTGTCAACAACACTATCCCTCCCCTAGTGCTACCATGGGCCAACTATAT
GAGGACAGTCATGAGGAAGATGATTTTCTGTATGTGGCTACAGTAATGAGAGTGTCTATGGGAAATTGAGTGGTT
GGAAGCCCAGCAGATGGAAGCACCTGGACTTAGGGGTAGGGGAGGGGTGTGTGTGTGACTTGGGGAAAGAGAGGG
CGGCTCCCACCGTGAGGAGACAGAAGGTGAAGACATATAGAACTTTACACCGCACACACCGTCAACGCATTTTC
ACATGCTCAACTGATATTTTTTGTGTCTTCCCTTGCCCCAGGGAGAAAGCATGTCAGGACAGAGCTGTTGGATTGG
CTTTGATAGAGGAATGGGGATGATGTAATTTTATGGCATTCCTGAGATTTAATTTTTGTGCAGTTTCATAGAAAG
GTCGGTCAGGAGGTGGACAAGTTGGGGTCAGAGATGATGGCAGTCCAGCAGCAACTCCCTGTGCTCCCTTCTCTT
TGGGCAGAGATTCTGTTTTTGACAGTTGCACAAGACAGGTAGGGAAAGGGGACTTGTGGTAGTGGGCCATACCTG
GGGACGAAAAGAGACCCACTGTAATTGATGCATCGTGGCCCCGATCTTCCGTATCCCACACTTCTTTCTCCCA
TCCCAGTTGCAATCTCACTCACAAACATCACAGTACCACCCAGGGGCGGCAGTAGACACCAACCCAGAAATTTA
GACAGGGATCTCTTATCTTTGGAAAATAGGGGTAGGCATGAGGGTGGTTATGATTAAGAAGATAATTTTGTGTG
TAAATAGCATTAACTGGAATTGACAGAGTGAGTTGAGCATCTCTGTCTAACCTGCTCTTTCTCTCTGGTGCTCC
TCATCTCACCCCTACCTTGGAATTTAATAAGCTTCAGGCATTTCCAATTGCAGACTAAAACCACTTCTACCATCT
CCTCTAGTATTTTCCATGTATCAGGACAGAGATGTCTTATGTAGGGAAGGGGCAGGTATGAAGTGAGGTAGATTA
TCTATACCTCTCACTCATTGAGGATTCTCGCTCCCATGCTGCTGTCCCTCATTCTCACACTCACAGGAATGCTA
TGTGATGGCCAGCTGCTTCCCTTCTTGGTTATCCACTGCAGCTGCTAGTTAGAAAGGTTTGCAGGGATGACTTTT
AGTAAATCATGGGGATTTTATTGATTTATTATCACTTATAGGATTTTGTGGGGTGGGAGTGGGGAGCAGGAATTG
CACTCAGACATGACATTTCAATTCATCTCTGCAAAATGAAAAGGGTCTTCCCTCTTGGGGGAAATCTGTGTGTCAG
TTCTGTCAGCTGCAAGTTCTTGTGTAATGAAGTCAATGCTGTCAGGCCAAG

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FIGURE 917

MKFQYKEVHPFEYRKKEGEKIRKKYPDRVPLIVEKAPKARVPDLDRKYLVPDLTDGQFYLLIRKRIHLRPEDA
LFFVNNNTIPPTSATMGQLYEDSHEEDDFLYVAYSNESVYGK

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FIGURE 918

CTCTCTTGCCTGCCGCCATGTGCCTTTTCGCCTTCTGCCGTGATTGTGAGGCCTCCCCAGCCATATGGAAGTTCAG
GATGCTCTGCCCGTGGCCCGGCTATCGGCATCGACCTGGGCACCACCTATTCGTGCGTCGGGGTCTTCCAACATGG
CAAGGTGGAGATCATCGCCAACGACCAGGGCAATCGCACCACCCCCAGCTACGTGGCCTTCACGGACACCGAGCG
CCTCATCGGCGACGCCGCCAAGAACCAGGTGGCCATGAACCCCCACCAACACCATCTTCGACGCCAAGAGGCTGAT
TGGACGGAAATTTCAGGATGCCACAGTGCAGTCCGATATGAAACACTGGCCGTTCCGGGTGGTGAGCGAGGGAGG
CAAGCCCCAAGTGCAAGTAGAGTACAAGGGGGAGACCAAGACCTTCTTCCCAGAGGAGATATCCTCCATGGTCTCT
CACGAAGATGAAGGAGATCGCGGAAGCCTACCTGGGGGGCAAGGTGCACAGCGCGGTCATAACGGTCCCGGCCTA
TTTCAACGACTCGCAGCGCCAGGCCACCAAGGACGCGAGGCACCATCACGGGGCTCAATGTGCTGCGCATCATCAA
CGAGCCCACGGCGGCGGCCATCGCCTACGGCCTGGACAAGAAGGGCTGCGCGGGCGGCGAGAAGAACGTGCTCAT
CTTTGACCTGGGCGGTGGCACTTTTCGACGTGTCCATCCTGACCATCGAGGATGGCATCTTCGAGGTGAAGTCCAC
GGCCGGCGACACCCACCTGGGCGGTGAGGACTTCGACAACCGCATGGTGAGCCACCTGGCGGAGGAGTTCAAGCG
CAAGCACAGAAGGACATTGGGCCCAACAAGCGCGCCGTGAGGCGGCTGCGCACCGCTTGCAGCGCGGCCAAGCG
CACCTGAGCTCGTCCACGCAGGCGAGCATCGAGATCGACTCGCTCTACGAGGGCGTGGACTTCTATACGTCCAT
CACGCGCGCCCGCTTCGAGGAGCTCAATGCCGACCTCTTTCGCGGGACCCTGGAGCCGGTGGAGAAGGCGCTGCG
CGACGCCAAGCTGGACAAGGGCCAGATCCAGGAGATCGTGCTGGTGGGCGGCTCCACTCGTATCCCCAAGATCCA
GAAGCTGCTGCAGGATTTCTTCAACGGCAAGGAGCTGAACAAGAGCATCAACCCGACGAGGCGGTGGCCTATGG
CGCCGCGGTGCAGGCGGCCATCCTCATCGGCGACAAATCAGAGAAATGTGCAGGACCTGCTGCTACTCGACGTGAC
CCGTTGTGCTGGGCATCGAGACAGCTGGCGGTGTCATGACCCCACTCATCAAGAGGAACACCACGATCCCCAC
CAAGCAGACGCAGACCTTACCACCTACTCGGACAACCAGAGCAGCGTACTGGTGCAGGTATACGAGGGCGAAGC
GGCCATGACCAAGGACAATAACCTGCTGGGCAAGTTCGACCTGACCGGGATTCCCCCTGCGCCTCGCGGGGTCCC
CCAAATCGAGGTTACCTTCGACATTGACGCCAATGGCATCCTTAACGTTACCGCCGCCGACAAGAGCACCGGTAA
GGAAAACAAAATCACCATCACCATGACAAAGGTTCGTCTGAGCAAGGACGACATTGACCGGATGGTGCAGGAGGC
GGAGCGGTACAAATCGGAAGATGAGGCGAATCGCGACCGAGTCGCGGCCAAAAACGCCCTGGAGTCCTATACCTA
CAACATCAAGCAGACGGTGGAAGACGAGAACTGAGGGGCAAGATTAGCGAGCAGGACAAAAACAAGATCCTCGA
CAAGTGTCAGGAGGTGATCAACTGGCTCGACCGAAACCAGATGGCAGAGAAAGATGAGTATGAACACAAGCAGAA
AGAGCTCGAAAGAGTTTGCAACCCCATCATCAGCAAACCTTTACCAAGGTGGTCTTGGCGGCGGCAGCGGCGGCGG
CGGTTTCAGGAGCCTCCGGGGGACCCACCATCGAAGAAGTGGACTAAGCTTGCACTCAAGTCAGCGTAAACCTCTT
TGCCTTTCTCTCTCTCTCTTTTTTTTTTGTGTTGTTCTTTGAAATGTCCTTGTGCCAAGTACGAGATCTATTGTTG
GAAGTCTTTGGTATATGCAAATGAAAGGAGAGGTGCAACAACCTTAGTTTAATTATAAAAGTTCCAAAGTTTGTGTT
TTTAAAAACATTATTCGAGGTTTCTCTTTAATGCATTTTGCGTGTTTGCTGACTTGAGCATTTTTTGATTAGTTTCG
TGCATGGAGATTTGTTTGAGATGAGAAACCTTAAGTTTGCACACCTGTTCTGTAGAAGCTTGGAACAGTAAAAAT
ATATAGGAGCTTAAATTGTTTATTTTTATGTACTACTTTAAAACCTAACTGAACATTGCAGTAATGTTAAGGACA
GGTATACTTTTTGCAACAAATGCATAAATGCAATGTAAAGTAAAGCTGAAATTGATCTCAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 919

MSARGPAIGIDLGTITYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTIFDAKRLI
GRKFEDATVQSDMKHWPFRVSEGGKPKVQVEYKGETKTFFPEEISSMVLTKMKEIAEAYLGKGVHSAVITVPAY
FNDSQRQATKDAGTITGLNVLRIINEPTAAAIAYGLDKKGCAGGEKNVLIFDLGGGTDFDVSILTIEDGIFEVKST
AGDTHLGGEDFDNRMVSHLAEEFKRKHKDIGPNKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGVDFYTSI
TRARFEELNADLFRGTLEPVEKALRDAKLDKGQIQEIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYG
AAVQAAILIGDKSENVQDLLLLLDVTPLSLGIETAGGVMTPLIKRNTTIPTKQTQTFTTYSQSSVLVQVYEGER
AMTKDNNLLGKFDLTGIPPAPRGVPQIEVTFDIDANGILNVTAADKSTGKENKITITNDKGRLSKDDIDRMVQEA
ERYKSEDEANRDRVAAKNALESYTYNIKQTVEDEKLKGKISEQDKNKILDKCQEVINWLDNRNMAEKDEYEHKQK
ELERVCNPIISKLYQGGPGGGSGGGSGASGGPTIEEVD

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FIGURE 920A

AGCTCCTGTGACAGACGGAGCTGGAGCGGCGGGGCGGCGGAGTCCGGCGGCGGGGAGAGCGAGTGAGCGAGC
GGAGGAGCAGCGACACGGGAGTCTAGGGAGCGAGAAGGAGAAGGAGGGGAGCGCTCGGGCGCGAGCGAGAGAAAC
CGCGAGCGCCGAGCTTGGACTCGAGCCCCGGAACGGCTGAGGAGCCCCCGCTCCCCCTCCCCCTCCCCCT
GGCCCCGGGCCAGCGCGCCATCCTCCCCCTCCTTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT
CCCCCGCCGGTGGATGGGAGTGAAGGACGGAAGAGGCCCGGCGGAGGCGGCGGTGCAGCGCTCCGGTGGAAATGAA
TCTTACTTGTGTAATATCTTCTGGTTACTAGTTGGATTCAATTTGTGAAAGAATCATTTTCCCCTGTGTGGAAGAC
ACTTAGTGGCATATTTAAATTATAAGTCCACGGATCAAAAAGCTTTTTGATTTCCAAAGGAGGGACATAACCACT
ATATCAGATAAGCTTGACATTACAGCCAAGATGGTGTCTGTCCCAGAGACAACGAGATGAACTAAATCGAGCTATA
GCAGATTATCTTCGTTCAAATGGCTATGAAGAGGCATATTCACTTTTTAAAAAGGAAGCTGAATTAGATGTGAAT
GAAGAATTAGATAAAAAGTATGCTGGTCTTTTGGAAAAAAATGGACATCTGTTATTAGATTACAAAAGAAGGTT
ATGGAATTAGAATCAAAGCTAAATGAAGCAAAAGAAGATTTACGTCAGGTGGACCTCTTGGTCAGAAACGAGAC
CCAAAAGAATGGATTCCTCGTCCGCCAGAAAAATATGCATTGAGTGGTCACAGGAGTCCAGTCACTCGAGTCATT
TTCCATCCTGTGTTCACTGTATGGTCTCTGCTTCAGAGGATGCTACAATTAAGGTGTGGGATTATGAGACTGGA
GATTTTGAACGAACTCTTAAAGGACATACAGACTCTGTACAGGACATTTCACTCGACCACAGCGGAAGCTTCTG
GCTTCTGTCTGCAGATATGACCATTAACTATGGGATTTTCAAGGGCTTTGAATGCATCAGAACCATGCACGGC
CATGACCACAATGTTTCTTCAGTAGCCATCATGCCAATGGAGATCATATAGTGTCTGCCTCAAGGGATAAACT
ATAAAATGTGGGAAGTGCAAAGTGGCTACTGTGTGAAGACATTCACAGGACACAGAGAATGGGTACGTATGGTA
CGGCCAAATCAAGATGGCACTCTGATAGCCAGCTGTTCCAATGACCAGACTGTGCGTGTATGGGTGCTAGCAACA
AAGGAATGCAAGGCTGAGCTCCGAGAGCATGAGCATGTGGTAGAATGCATTTCTGGGCTCCAGAAAGCTCATAT
TCCTCCATCTCTGAAGCAACAGGATCTGAGACTAAAAAAGTGGTAAACCTGGGCCATTCTTGCTGTCTGGATCC
AGAGACAAGACTATTAAGATGTGGGATGTCTAGTACTGGCATGTGCCTTATGACCCTCGTGGGTGCTAGATAACTGG
GTACGTGGAGTTCTGTTCCATTCTGGGGGGAAGTTTATTTTGAAGTGTGCTGATGACAAGACCCTACGCGTATGG
GATTACAAGAACAAGCGATGCATGAAGACCCTCAATGCGCATGAACACTTTGTTACCTCCTTGGATTTCCACAAG
ACGGCACCCCTATGTCGTCACTGGCAGCGTAGATCAAAACGTAAGTGTGGGAGTGCCGTTGATTGTGTCTCCTT
CGGCCCCCTCCTCCCTCTTTTCTCTGGATGCACTCTGATGATACCATGGTTACCCCATTTAGAGCTCTGTTTTAAATA
AATATTGTCCTTTTATGTAATTTATTTCTGGATGTAGATTGAGCTTATTAATGTTACACACAAAGTATTCATGCA
TGGTGAATCCAAATTGTATACTGTAAATTTACATACGTTGTCTAGAAGTACCATAGGGTTTTAAAACCTGGGCTG
GCATTGGTGCACACCAGGCCTAAGAAGGCAGAAAGTTGAATCAATTGAAGTGGGCACTAACTGAATAGTTGACAG
TGTCATTTTATGTTGGATTATTAATTCCTGTTTTTCTTTCTGCTATCTGTTGGTGCCTGACTTGATGGCCTCATT
TGGGGAAAAGTGGTGGTTATTAGGGCTTTTCTGAAATGTGTATCTATGTAACATCACTTAAGTGTGCTTAATAA
ATCTCCTGTAAGGATTTTAGATGATAAGGCTACAATTCAGAATCTTCTGAACCATCTATGTAATGAATGGGGATT
ATACATTGGAATTTTTGTTCATGACACATTTGCCAATCAGTAGGATATATTTGTTTTGGCAGCCTATCACGCAGA
GGCTAGTGGTATATTTATGTAAGAAAATGACTGTAAATCTCAAGAAAATCTCAGCAGCTAATAGCAACTCATT
ATTTCAATTTTGGTCTTAATGCTTTGTAAACAGGTCAAAAAATACTGTCATACTCTAAGCTTCTATTTTCCACACT
GGACATACTTCTAGTTGTATTCTCCATACTATTAGACTGTGTAGTGTGACTTCCAAGTAGAATTTAATCTCC
CCATTGAGTGTGTCATGGTACAAATCACTATTCGTTTGGTGTTTTTTAGGGATGTGCAATGTGCATTACATAA
TGACAGAAATACTGAGAAGGTTCTGTGTGCCCATTTGAAAGGAGTGGGAGGAATACAGCAGTTTGTTTTTCAACA
TGAATCTGATATTGATTTAACTGTGTTTCACTTACAAGTTTTAAAAAATGACAGGGTTTTAATGGAGCGTGCAT
AAAAATGTACTGTTTTACCTTTTGTATATGTAATGTTTGTAAAGTATATGGGCCTATCTGTAAGTGGGTAAG
TCTGTATGTGTGATCATACACATCAACCTCCATGTCCTTAGTCCGTTGGTTTTTGAAGAGTGTCTAAAACGGACA
AGTAGAATAAATGTTGCTGTGGAATGCCATGCTTTAGAACAACCCCTTTTTGATCTTAATGCTTCTGAAAACCTAG
GTCTGACTCTGGGGATTTTTTCCAGCCGAAGGAAAATCACTTCCGTTATGTCCCCCTCTAATTTAGCCGCTCGA
CATTTTACACAACCCGGATATGTTGTATATTTTGACCCAAAGTTACAGGTAGGTTTAAGAGAATTTTTAGCCATG
ACTTTTGGAGCACTATTCATTGTGAGTTATTAATAAAGAAATTCATTGCTTAGCTAACCAACAGGTTTTTTTTG
TTTCCAAGAGAGTTATTTGAAAAGTTAACAGAACATGAGATAACAGTGACAGTTTAACAAAGATAAAAATCTGA
ACTGCGTTTTTATTCATTTGTGTACTATGTGATTTTTTAAATGTCCCTTTAGTATTTAATGGAATAATGGTTCTT
GCAAAAGACAAAGGTGAGAGTTAGCGTCCTGTAGATACACACAGAGACTAGGCCGTATATTAAGTAGAAGCAGC
TTTATGTCTAGCTTGTGTCTTTTTGTTTGTGTTGCTTGTGTTTTTAGATTCTGAGAGATGTCTCTGGAAGGGA

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FIGURE 920B

AAGTTTTGAGAACTAATGGCTATTTTTGAGGACAAAAATTACATCTTAAGCTAATTCCTTAAATACATACAGTAG
GTGAATTTTCAGGACAATATTGCCTCACAACCCTGCTTACATTGAAAAGTCTTTTTCCCTTAGCTCTTCTGACTG
GATTTTTCTACAAAACATATGGAAAATATCTTTGTTCTTGTTGCTGCTATTTCTGTCCTATTTTGAGAAATATA
AATACATAGAAATGGTGCATCTTAACATTTGTTTGACATGTATAAATGCTTGTATTTTAATTCATTTTTAGCA
TGAATTGTTTAAGGGTAAGCCACAACATCTAGAAATCACTCATAGATATTGAACAATAAAGGAGAATGGTACCGA
TGCAGGAGGAAGCAAGCGTGTCTTCCCCTGCAGCACACAGCGACTTGCGTTGACAAAGGAGGAGGAAACGATTAC
TCTGTAAACAAAGTTATCCTTACTTGGGAGATTGCCACAGCCTGCTGCTGAGTTGAGTTACCAGACATCCTCCAT
GTGAGAAGCAGCGAACATTGAATCTCAGGGATGGCCCACAACCTGGGTCCACATGTAATGAGCCCTGTTTAATAAC
GAAGGGGTGGGGGAGAGCAGTCCGTCTACAACCTGGAATCAGATTGCAAAATTTCCCTGCACTGCTGTCTGACAC
TGTCCTGTTGATGCCCTTTCTGACTGTGTTCTCTGTTTTCTCTGTCTGCTGTCTAACCTGTGCCTTGCCCTGGGA
TAAGGACAATGATGAGGTTACTGGTTTGGATTGTAAGTAGAGGACTTTTATTAATTGGTTTAGAGGTTCACTGCT
GCTTTGTCACTTTCTCAATCAAATTGGCCACTTAAGAAATAAAGAGCTGGTAGAATTGCATCCTCAGATGATTAT
TGACTGTGTGTGTGTGTGAAAACAGACATTCCAGTGCCACCCAAATATATATCTGTAACGTGCCCAAGAAATCCT
AGCTGCGCTCTTGAGAGTGCATGCCATGGAGACTGGTTTAGACACCGCGTGGAGCCTAGTTGCCTGTTGTCACGG
CATCTTGCACTTTAGGAGACTAAGACCGTCTCGTTTCGTCTGTGTGTGGTGTGACCAATGGTGTGCCCAGAGCAC
TACTCTCAAAATCACTAGTGTTAGCAAGTCGTCCCGGGCTGGGGAGCGTTCGCCGTAGTCTTTGGAAGCTTTGGC
TTTAGATTTACCAAGCCCCGCCTCCCCGCTGCCAGTGCCCTGCTCTCCCGTTCGCCTCTTTCTGTTTCTGTGTGA
ACTTTCCCGGTAATATCACTCGTTAAATAGGTTTTCTTTAACTTAATTAAGGAAAACTATTTAAAGGTAAAGG
ATATTTTGTTGACATCGGTGGCTCGATCATCCTTAAGCAACTGAAGTTAAATTTGTTGAAGGAAAAGGCACTTAA
ATTGGTTACTTTTCATGTCCAGCTGTATATAAGTCCAGTGTGTTTCATCTAGATGACGCAAAGAATCTCCTGGTAGA
GAAGCGACATGTAAAAAAGTGGTGGAAAAAGGTTTTGGATTTTTTTTCCAGTGGGGTGGGGGAGGGCAAGCTGG
ATTTACAGGTCACGGCTGGACTGAATGGGCCTTTTTATCTTCCCACTGTATCATGGAAGTAGCTGCTTGCTTGTA
CTGTCCATCCTTCAGGCATCCCTAAAGCTCACTCTGAAGATGTTAGAGACAAACACAACTCTTCGAGTTAAAGT
TGATCCTGACACTGACATGAAGGCAAGCCTTGATTTTCGTATGAACGTTGCTGAAGTGGTAATTGAGGAAAACAGT
TCCCCAGATTGTTAAGAGTTCACTGAAGATATTGACACAATTTTAAAAAATCAGTAAAGGAATGTATATAATATT
GCTCTCGTGTGTTTACAGTAAGATTTGTTGCTCTCAGACTGTGTAAACAAAATTTATTCATGTTTTCTGCATATT
AAAAATCTTATTGTACCAACTGGTAAACCG

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FIGURE 921

MVLSQRQRDELNRAIADYLRNNGYEEAYSVFKKEAELD VNEELDKKYAGLLEKKWTSVIRLQKKVMELESKLNEA
KEEFTSGGPLGQKRDPKEWIPRPPEKYALSGHRSPVTRVIFHPVFSVMVSASEDATIKVWDYETGDFERTLKGHT
DSVQDISFDHSGKLLASCSADMTIKLWDFQGFECIRTMHGHDHNVSSVAIMPNGDHIVSASRDKTIKMWEVQTGY
CVKTFTGHREWVRMVRPNQDGTLIASCSNDQTVRVWVATKECKAELREHEHVVECISWAPESSYSSISEATGSE
TKKSGKPGPFLLSGSRDKTIKMWDVSTGMCLMTLVGHDNWWVRGVLFHSGGKFILSCADDKTLRVWDYKNKRCMKT
LNAHEHFVTSLDFHKTAPYVVTGSVDQTVKVWECR

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FIGURE 922

TCAGAGTC~~CGG~~GCTCAGGCTCCGGCTGCGGCTCCAGCCCGC~~GATG~~CCCCATTCCGTGACCCTGCGCGGGCCTTCGC
CCTGGGGCTTCCGCTGGTGGGCGGCCGGGACTTCAGCGCGCCCTCACCATCTCACGGGTCCATGCTGGCAGCA
AGGCTGCATTGGCTGCCCTGTGCCAGGAGACCTGATCCAGGCCATCAATGGTGAGAGCACAGAGCTCATGACAC
ACCTGGAGGCACAGAACCGCATCAAGGGCTGCCACGATCACCTCACACTGTCTGTGAGCAGGCCTGAGGGCAGGA
GCTGGCCCAGTGCCCTGATGACAGCAAGGCTCAGGCACACAGGATCCACATCGATCCTGAGATCCAGGACGGCA
GCCCCAACACCAGCAGGCGGCCCTCAGGCACCGGGACTGGGCCAGAAGATGGCAGACCAAGCCTGGGATCTCCAT
ATGGACAACCCCTCGCTTTCCAGTCCCTCACAATGGCAGCAGCGAGGCCACCCTGCCAGCCAGATGAGCACCC
TGCATGTGTCTCCACCCCCAGCGCTGACCCAGCCAGAGGCTCCCGCGGAGCCGGGACTGCAGAGTCGACCTGG
GCTCCGAGGTGTACAGGATGCTGCGGGAGCCAGCCGAGCCCGTGGCCGCGGAGCCCAAGCAGTCAGGCTCCTTCC
GCTACTTGCAGGGCATGCTAGAGGCCGGCGAGGGCGGGGATTGGCCCGGGCTGGCGGGCCCCGGAACCTCAAGC
CCACGGCCAGCAAGCTGGGCGCTCCGCTGAGCGGCCTGCAGGGGCTGCCGAGTGACGCGCTGCGGCCACGGCA
TCGTGGGCACCATCGTCAAGGCACGGGACAAGCTCTACCATCCCGAGTGCTTCATGTGCACTGACTGCGGCCCTGA
ACCTCAAGCAGCGTGGTTACTTCTTTCTGGACGAGCGGCTCTACTGTGAGAGCCACGCCAAGGCGCGCGTGAAGC
CGCCCAGGGGTACGACGTGGTGGCGGTGTACCCCAATGCCAAGGTGGAACCTCGTCT~~TGAG~~CTGGGACCCTGCTCC
CACGCTGCTTCTTAAGGTCCCTGCTCGGCCGGTGTAATATGTTTCACCCTGTCCCTCTAATAAAGCTCCTCTG
CTCCACCTTGAACCTGTCACCTGGCCTGCCACCCTCCTGCGCAGGCCATGCATGGCTCCCGAGTACAGTAGTATC
TGCTTAGGTGCCAGGCATGTCCTAGGCTCTGGGTGCAGTAGTGAGCAGGACGGGTACCATGCTGCCCTGAAGGGG
CCACAGCCTGGGTGGAAGGCAGACCTGAATCACAACGGGCCAGCTCTAGTAATACGAAGGTGAGGTCTGGGATGC
TGCGTGCGGCGCGACGACAGGAGGTATGACCTGGGTGGGGTCAGGGAAAGTCTTAGCTGAGAACTAAGAGATGAG
GGAGGCACAACTCTGCACGGGGGAACTGTGTGTGCAAAGGTGAGCTGGGGGCGAGAAAGGCCTCTGTGGCCGTC
ATCGGCACTAGCGGTTGGGGGTGGTGGTGGGGTGCTGGCAGCCTCAGGAGCGATCGCTCCCCTGGAGAGGGTGA
TTGAGTGTGAGATCACCGGGGCCCGCGGGCCGCTGCACTTCTGTTCCAGGTTTTTCTGGCATTCTTCTGTTT
CAGGTTTTCTTCCACCCACGAGCACTTTATTCTCTCCGAGACCCCTTTTCTTCCCCTTCCTCTCTCCACCAGG
GGGCGCGCTTAAATTTCCAGACAGAGACCAGAAGGAAGTTTAGAAAGAAAAGAACTTGCCCAGGGCAGCTTT
GCCCTCCAAGAGGCTCCCTCCTGTCTCTAAGTCAATTCCACCCCTCCTCGAAGTCCCGGCTTCCACCCCTCTCCT
CAGAGTCCCGGCGTTTACCTCGTGGTGTGTTTGCCTTGGGCCTTTTCATGCCCCGGCTGCACACATCGTCTGTGAA
TTGTGGCTGTTCACTCCCGAGGATGTGTCTTAGACTCCGGGTGCGGTGGATCTACCCTCTAGTTTACTTGCTCGG
GAGAAGAACTGACTCGTTTTATTTAGTGCCTATTTAGCGAGCCAGAGTAACGTACATTTGTGCTGTTTTCAAT
TTTGTGCTATCGCAAATCACAAAAAACTGTTATCAATTACATTATCATCAGCACGAGACCCATTTCTTGTG
CTCCTGCCAGCTCAGGATATTATGTTTCTTTTTTCATTTTTGCCAGTCTGTTAAGTAAATGTATATGCGTTT
TTTTAA

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FIGURE 923

MPHSVTLRGPSPWGFRLVGGRDFSAPLTISR VHAGSKAALAA LCPGD LIQAINGESTELMTHLEAQNRIKGCHDH
LTLSVSRPEGRSWPSAPDDSKAQAHRIHIDPEIQDGSPTTSRRPSGTGTGPEDGRPSLGSPYGQPPRFVPHNGS
SEATLPAQMSTLHVSPPPSADPARGLP RSRDCRVDLGSEVYRMLREPAEPVAAEPKQSGSF RYLQGMLEAGEGGD
WPGPGGPRNLKPTASKLGAPLSGLQGLPECTRCGHGIVGTIVKARDKLYHPECFMCSDCGLNLKQRGYFFLDERL
YCESHAKARVKPPEGYDVVAVYPNAKVELV

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FIGURE 924A

GCTGCCCCGAGCCTTTCTGGGGAAGAACTCCAGGCGTGCGGACGCAACAGCCGAGAACATTAGGTGTTGTGGACA
GGAGCTGGGACCAAGATCTTCGGCCAGCCCCGCATCCTCCCGCATCTTCCAGCACCGTCCCGCACCCCTCCGCATC
CTTCCCCGGGCCACCACGCTTCCTATGTGACCCGCTGGGCAACGCCGAACCCAGTCGCGCAGCGCTGCAGTGAA
TTTTCCCCCAAACCTGCAATAAGCCGCTTCCAAGGCCAAGATGTTTCATAAATATAAAGAGCATCTTATGGATGT
GTTCAACCTTAATAGTAACCCATGCGCTACATAAAGTCAAAGTGGGAAAAAGCCACCGGTGAGGGGCTCCCTCT
CTGGAAGATCAGCCTACCTTGTCAATTTTTCAACGATGCCTACTTTGCCACCCAGTTACAACACCAGTGAATTC
TCCGCATCAAATGGTCTAAGATTGAAGTGGACAAAAATGGAAAAGATTTGAAAGAGACTACTGTCCTTGTGGCCC
AAAATGGAAATATCAAGATTGGTCAGGACTACAAAGGGAGAGTGTCTGTGCCACACATCCCAGAGGTGTGGGCG
ATGCCTCCCTCACTGTGGTCAAGCTGCTGGCAAGTGATGCGGGTCTTTACCGCTGTGACGTCATGTACGGGATTG
AAGACACACAAGACACGGTGTCACTGACTGTGGATGGGGTTGTGTTTCACTACAGGGCGGCAACCAGCAGGTACA
CACTGAATTTTGAGGCTGCTCAGAAGGCTTGTGTTGGACGTTGGGGCAGTCATAGCAACTCCAGAGCAGCTCTTG
CTGCCTATGAAGATGGATTTGAGCAGTGTGACGACGGCTGGCTGGCTGATCAGACTGTCAGATATCCCATCCGGG
CTCCCAGAGTAGGCTGTTATGGAGATAAGATGGGAAAGGCAGGAGTCAGGACTTATGGATTCCGTTCTCCCCAGG
AACTTACGATGTGTATTGTTATGTGGATCATCTGGATGGTGTATGTGTTCCACCTCACTGTCCCCAGTAAATTCA
CCTTCGAGGAGGCTGCAAAAGAGTGTGAAAACCAGGATGCCAGGCTGGCAACAGTGGGGGAACTCCAGGCGGCAT
GGAGGAACGGCTTTGACCAGTGCGATTACGGGTGGCTGTCCGATGCCAGCGTGCGCCACCCTGTGACTGTGGCCA
GGGCCCAGTGTGGAGGTGGTCTACTTGGGGTGAGAACCCTGTATCGTTTGAAGAACAGACAGGCTTCCCTCCCC
CTGATAGCAGATTTGATGCCTACTGCTTTAAACCTAAAGAGGCTACAACCATCGATTTGAGTATCCTCGCAGAAA
CTGCATCACCCAGTTTATCCAAAGAACCACAAATGGTTTCTGATAGAACTACACCAATCATCCCTTTAGTTGATG
AATTACCTGTCAATCCAACAGAGTTCCTTCCCGTGGGAAATATTGTCAGTTTTGAACAGAAAGCCACAGTCCAAC
CTCAGGCTATCACAGATAGTTTAGCCACCAAATTACCCACACCTACTGGCAGTACCAAGAAGCCCTGGGATATGG
ATGACTACTCACCTTCTGCTTCAGGACCTCTTGGAAAGCTAGACATATCAGAAATTAAGGAAGAAGTGCTCCAGA
GTACAACTGGCGTCTCTCATTATGTACGGATTCAITGGGATGGTGTCTGGAAGATAAAACAAACACAAGAATCGG
TTACACAGATTGAACAAATAGAAGTGGGTCTTTGGTAACATCTATGGAATCTTAAAGCACATTCTTTCCAAGG
AATTCCCTGTAAGTGAACACCATTTGGTAAGTGAAGAATGATCCTGGAATCCAAAAGTGAAGGAAATGGTAA
GCACTGTTTCTGAATTGGTAACACAGGTCACTATGGATTACCTTGGGAGAAGAGGATGATGAAGACAGAACAC
TTACAGTTGGATCTGATGAGAGCACCTTGATCTTTGACCAAATTCCTGAAGTCATTACGGTGTCAAAGACTTCAG
AAGACACCATCCACACTCAATTTAGAAGACTTGGAGTCAGTCTCAGCATCCACAACCTGTTTCCCTTTAATTATGC
CTGATAATAATGGATCATCCATGGATGACTGGGAAGAGAGACAACTAGTGGTAGGATAACGGAAGAGTTTCTTG
GCAATATCTGTCTACTACACCTTTTCCATCACAGCATCGTACAGAAATAGAATTGTTTCTTATTCTGGTGATA
AAATATTAGTAGAGGGAATTTCCACAGTTATTTATCCTTCTCTACAAACAGAAATGACACATAGAAGAGAAAGAA
CAGAAACACTAATACCAGAGATGAGAACAGATACTTATACAGATGAAATACAAGAAGAGATCACTAAAAGTCCAT
TTATGGGAAAAACAGAAGAAGAAGTCTTCTCTGGGATGAACTCTCTACATCTCTCTCAGAGCCAATTCATGTTA
CAGAGTCTTCTGTGGAATGACCAAGTCTTTTGATTTCCCAACATTGATAACAAAGTTAAGTGCAGAGCCAACAG
AAGTAAGAGATATGGAGGAAGACTTTACAGCAACTCCAGGTACTACAAATATGATGAAAATATTACAACAGTGC
TTTTGGCCCATGGTACTTTAAGTGTGGAAGCAGCCACTGTATCAAATGGTCAITGGGATGAAGATAATACAACAT
CCAAGCCTTTAGAGTCTACAGAACCTTCAGCCTCTTCAAATTTGCCCTTACTCACAACCTGTGGGGATGA
ATGGAAGGATAAAGACATCCCAAGTTTCACTGAAGATGGAGCAGATGAATTTACTCTTATTCAGATAGTACTC
AAAAGCAGTTAGAGGAGGTTACTGATGAAGACATAGCAGCCCATGGAAAATTCACAATTAGATTTAGCCAACTA
CATCAACTGGTATTGCAGAAAAGTCAACTTTGAGAGATTCTACAACCTGAAGAAAAAGTTCCACCTATCACAAGCA
CTGAAGGCCAAGTTTATGCAACCATGGAAGGAAGTGCTTTGGGTGAAGTAGAAGATGTGGACCTCTCTAAGCCAG
TATCTACTGTTCCCCAATTTGCACACACTTCAGAGGTGGAAGGATTAGCATTTGTTAGTTATAGTAGCACCCAG
AGCCTACTACTTATGTAGACTCTTCCCATACCATTCCTCTTCTGTAATTTCCCAAGACAGACTGGGGAGTGTTAG
TACCTTCTGTTCCATCAGAAGATGAAGTTCTAGGTGAACCCTCTCAAGACATACTTGTCATTGATCAGACTCGCC
TTGAAGCGACTATTTCTCCAGAACTATGAGAACAACAAAATCACAGAGGGAACAACCTCAGGAAGAATTCCTT
GGAAAGAACAGACTGCAGAGAAACCAGTTTCTGCTCTCAGTTCTACAGCTTGGACTCCCAAGGAGGCAGTAACAC
CACTGGATGAACAAGAGGGCGATGGATCAGCATATACAGTCTCTGAAGATGAATTGTTGACAGGTTCTGAGAGGG
TCCAGTTTTAGAAACAACTCCAGTTGGAAAATTGATCACAGTGTGTCTTATCCACCAGGTGCTGTAAGTGAAGC

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FIGURE 924B

ACAAAGTGAAAACAGATGAAGTGGTAACACTAACACCACGCATTGGGCCAAAAGTATCTTTAAGTCCAGGGCCTG
AACAAAAATATGAAACAGAAGGTAGTAGTACAACAGGATTTACATCATCTTTGAGTCCTTTTAGTACCCACATTA
CCCAGCTTATGGAAGAAACCACTACTGAGAAAACATCCCTAGAGGATATTGATTTAGGCTCAGGATTATTTGAAA
AGCCCCAAGCCACAGAACTCATAGAATTTTCAACAATCAAAGTCACAGTTCCAAGTGATATTACCACTGCCTTCA
GTTCAGTAGACAGACTTCACACAACCTTCAGCATTCAAGCCATCTTCCGCGATCACTAAGAAACCACCTCTCATCG
ACAGGGAACCTGGTGAAGAAACAACCACTGACATGGTAATCATTTGGAGAATCAACATCTCATGTTTCTCTCCACTA
CCCTTGAAGATATTGTAGCCAAGGAAACAGAAACCGATATTGATAGAGAGTATTTACGACTTCAAGTCCTCCTG
CTACACAGCCAACAAGACCACCCACTGTGGAAGACAAAGAGGCCCTTTGGACCTCAGGCGCTTTCTACGCCACAGC
CCCCAGCAAGCACAAAATTTACCCCTGACATTAATGTTTATATTATTGAGGTCAGAGAAAATAAGACAGGTGCGAA
TGAGTGATTTGAGTGTAATTGGTTCATCCAATAGATTGAGAACTCTAAAGAAGATGAACCTTGAGTGGAAGAAACAG
ATCCAGTGATGATCTAATGGCTGAAAATTTTACCTGAATTCCTTGACATAATTGAAATAGACCTATACCACAGTG
AAGAAAATGAAGAAGAAGAAGAGTGTGCAAATGCTACTGATGTGACAACCACCCCATCTGTGCAGTACATAA
ATGGGAAGCATCTCGTTACCACTGTGCCCAAGGACCCAGAAGCTGCAGAAGCTAGGCGTGGCCAGTTTGAAAAGTG
TTGCACCTTCTCAGAATTTCTCGGACAGCTCTGAAAGTGATACTCATCCATTTGTAATAGCCAAAACGGAATTTGT
CTACTGCTGTGCAACCTAATGAATCTACAGAAAACACTGAGTCTCTTGAAGTTACATGGAAGCCTGAGACTTACC
CTGAAACATCAGAACATTTTTCAGGTGGTGAGCCTGATGTTTTCCCCACAGTCCCATTTCCATGAGGAATTTGAAA
GTGGAACAGCCAAAAAAGGGGCAGAAATCAGTCACAGAGAGAGATACTGAAGTTGGTTCATCAGGCACATGAACATA
CTGAACCTGTATCTCTGTTTCTGAAAGAGTCTTCAGGAGAGATTGCCATTGACCAAGAATCTCAGAAAATAGCCT
TTGCAAGGGCTACAGAAGTAACATTTGGTGAAGAGGTAGAAAAAGTACTTCTGTACATACACTCCCACTATAG
TTCCAAGTTCTGCATCAGCATATGTTTCAGAGGAAGAAGCAGTTACCCTAATAGGAAATCCTTGGCCAGATGACC
TGTTGTCTACCAAAGAAAGCTGGGTAGAAGCAACTCCTAGACAAGTTGTAGAGCTCTCAGGGAGTTCTTCGATTC
CAATTACAGAAGGCTCTGGAGAAGCAGAAGAAGATGAAGATACAATGTTTACCATGGTAAGTATTTATCACAGA
GAAATACTACTGATACACTCATTACTTTAGACACTAGCAGGATAATCACAGAAAGCTTTTTTGGAGTTCTTGCAA
CCACCATTTATCCAGTTTCTGAACAACCTTCTGCAAAAGTGGTGCCTACCAAGTTTGTAAGTGAAACAGACACTT
CTGAGTGGATTTCCAGTACCCTGTTGAGGAAAAGAAAAGGAAGGAGGAGGGAAGTACAGGTACGGCTTCTA
CATTTGAGGTATATTCTATCTACACAGAGATCGGATCAATTAATTTTACCCTTTGAATTAGAAAGTCCAAATGTAG
CTACATCTAGTGATTGAGGTACCAGGAAAAGTTTTATGTCTTTGACAACACCAACACAGTCTGAAAGGGAAATGA
CAGATTCTACTCTGTCTTTACAGAAACAAATACATTAGAAAATTTGGGGGCACAGACCACTGAGCACAGCAGTA
TCCATCAACCTGGGGTTTCAGGAAGGGCTGACCACTCTCCACGTAGTCTCTGCTCTGTCTTTATGGAGCAGGGCT
CTGGAGAAGCTGCTGCCGACCCAGAAACCACCACTGTTTCTTCATTTTTCATTAAACGTAGAGTATGCAATTCAAG
CCGAAAAGGAAGTAGCTGGCACTTTGTCTCCGCATGTGGAACCTACATTCTCCACTGAGCCAACAGGACTGGTTT
TGAGTACAGTAATGGACAGAGTAGTTGCTGAAAATATAACCCAAACATCCAGGGAATAGTGATTTTCAGAGCGAT
TAGGAGAACCAATTATGGGGCAGAAATAAGGGGCTTTTCCACAGGTTTTCTTTGGAGGAAGATTTTCAGTGGTG
ACTTTAGAGAATACTCAACAGTGTCTCATCCATAGCAAAAGAAGAAACGGTAATGATGGAAGGCTCTGGAGATG
CAGCATTTAGGGACACCCAGACTTCACCATCTACAGTACCTACTTCAGTTCACATCAGTCACATATCTGACTCAG
AAGGACCCAGTAGCACCATGGTCAGCACTTCAGCCTTCCCCTGGGAAGAGTTTACATCCTCAGCTGAGGGCTCAG
GTGAGCAACTGGTCACAGTCAGCAGCTCTGTTGTTCCAGTGCTTCCAGTGCTGTGCAAAAGTTTTCTGGTACAG
CTTCTCCATTATCGACGAAGGATTGGGAGAAGTGGGTACTGTCAATGAAATTGATAGAAGATCCACCATTTTAC
CAACAGCAGAAGTGGAAGGTACGAAAGCTCCAGTAGAGAAGGAGGAAGTAAAGGTGAGTGGCACAGTTTCAACAA
ACTTTCCCCAACTATAGAGCCAGCCAAATTATGGTCTAGGCAAGAAGTCAACCCTGTAAGACAAGAAATTGAAA
GTGAAACAACATCAGAGGAACAAATTCAAGAAGAAAAGTCATTTGAATCCCCTCAAAACTCTCCTGCAACAGAAC
AAACAATCTTTGATTCACAGACATTTACTGAACTGAACTCAAACCACAGATTATTCTGTACTAACAACAAAGA
AAACTTACAGTGATGATAAAGAAATGAAGGAGGAAGACACTTCTTTAGTTAACATGTCTACTCCAGATCCAGATG
CAAATGGCTTGGAATCTTACACAACCTCTCCCTGAAGCTACTGAAAAGTCACATTTTTTTCTTAGCTACTGCATTAG
TAAGTGAATCTATACCAGCTGAACATGTAGTCACAGATTACCAATCAAAAAGGAAGAAAGTACAAAACATTTTC
CGAAAGGCATGAGACCAACAATTCAAGAGTCAGATACTGAGCTCTTATTCTCTGGACTGGGATCAGGAGAAGAAG
TTTTACCTACTCTACCAACAGAGTCAGTGAATTTTACTGAAGTGGAACAAATCAATAACACATTATATCCCCACA
CTTCTCAAGTGGAAGTACCTCAAGTGACAAAATTGAAGACTTTAACAGAATGGAAAATGTGGCAAAAGAAGTTG

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FIGURE 924C

GACCACTCGTATCTCAAACAGACATCTTTGAAGGTAGTGGGTCAGTAACCAGCACAAACATTAATAGAAATTTTAA
GTGACACTGGAGCAGAAGGACCCACGGTGGCACCTCTCCCTTTCTCCACGGACATCGGACATCTCAAATCAGA
CTGTCAGGTGGGCAGAAGAAATCCAGACTAGTAGACCACAAACCATAACTGAACAAGACTCTAACAAGAATTCTT
CAACAGCAGAAATTAACGAAACAACAACCTCATCTACTGATTTTCTGGCTAGAGCTTATGGTTTTGAAATGGCCA
AAGAATTTGTTACATCAGCACCAAAACCATCTGACTTGTATTATGAACCTTCTGGAGAAGGATCTGGAGAAGTGG
ATATTGTTGATTCATTTACACTTCTGCAACTACTCAGGCAACCAGACAAGAAAGCAGCACCACATTTGTTTCTG
ATGGGTCCCTGGAAAAACATCCTGAGGTGCCAAGCGCTAAAGCTGTTACTGCTGATGGATTCCCAACAGTTTCAG
TGATGCTGCCTCTTCATTAGAGCAGAACAAAAGCTCCCCTGATCCAACCTAGCACACTGTCAAATACAGTGTCAAT
ATGAGAGGTCCACAGACGGTAGTTTCCAAGACCGTTTCAGGGAATTCGAGGATTCCACCTTAAACCTAACAGAA
AAAAACCCACTGAAAATATTATCATAGACCTGGACAAAGAGGACAAGGATTTAATATTGACAATTACAGAGAGTA
CCATCCTTGAAATTTCTACCTGAGCTGACATCGGATAAAAAATACTATCATAGATATTGATCATACTAAACCTGTGT
ATGAAGACATTCTTGGAATGCAACAGATATAGATACAGAGGTACCATCAGAACCACATGACAGTAATGATGAAA
GTAATGATGACAGCACTCAAGTTCAAGAGATCTATGAGGCAGCTGTCAACCTTTCTTTAACTGAGGAAACATTTG
AGGGCTCTGCTGATGTTCTGGCTAGCTACACTCAGGCAACACATGATGAATCAATGACTTATGAAGATAGAAGCC
AACTAGATCACATGGGCTTTCACTTCACAACTGGGATCCCTGCTCCTAGCACAGAAACAGAATTAGACGTTTTAC
TTCCCACGGCAACATCCCTGCCAATTCCTCGTAAGTCTGCCACAGTTATTCCAGAGATTGAAGGAATAAAAGCTG
AAGCAAAAGCCCTGGATGACATGTTTGAATCAAGCACTTTGTCTGATGGTCAAGCTATTGCAGACCAAAAGTGAAA
TAATACCAACATTGGGCCAATTTGAAAGGACTCAGGAGGAGTATGAAGACAAAAACATGCTGGTCCCTTCTTTTC
AGCCAGAATTCTCTTCAGGAGCTGAGGAGGCATTAGTAGACCATACTCCCTATCTAAGTATTGCTACTACCCACC
TTATGGATCAGAGTGTAACAGAGGTGCCTGATGTGATGGAAGGATCCAATCCCCCATATTACACTGATACAACAT
TAGCAGTTTCAACATTTGCGAAGTTGTCTTCTCAGACACCATCATCTCCCCTCACTATCTACTCAGGCAGTGAAG
CCTCTGGACACACAGAGATCCCCAGCCCAGTGCTCTGCCAGGAATAGACGTCCGGCTCATCTGTAATGTCCCCAC
AGGATTCTTTTAAGGAAATTCATGTAAATATTGAAGCACTTTCAAACCATCAAGTGAGGAATACCTTCACATAA
CTGAGCCTCCCTCTTTATCTCCTGACACAAAATTAGAACCCTTCAGAAGATGATGGTAAACCTGAGTTATTAGAAG
AAATGGAAGCTTCTCCACAGAACTTATTGCTGTGGAAGGAACCTGAGATTCTCCAAGATTTCCAAAACAAAACCG
ATGGTCAAGTTTCTGGAGAAGCAATCAAGATGTTTCCCACCATTAAACACCTGAGGCTGGAAGTGTATTACAA
CTGCCGATGAAATTGAATTAGAAGGTGCTACACAGTGGCCACACTCTACTTCTGCTTCTGCCACCTATGGGGTCG
AGGCAGGTGTGGTGCCTTGGCTAAGTCCACAGACTTCTGAGAGGCCACGCTTTCTTCTTCTCCAGAAATAAACC
CTGAAACTCAAGCAGCTTTAATCAGAGGGCAGGATTCCACGATAGCAGCATCAGAACAGCAAGTGGCAGCGAGAA
TTCTTGATTCCAATGATCAGGCAACAGTAAACCCTGTGGAATTTAATACTGAGGTTGCAACACCACCATTTTCCC
TTCTGGAGACTTCTAATGAAACAGATTTCTGTATTGGCATTAAATGAAGAGTCAGTGAAGGCACGGCAATCTATT
TACCAGGACCTGATCGCTGCAAAATGAACCCGTGCCTTAACGGAGGCACCTGTTATCCTACTGAAACTTCCTACG
TATGCACCTGTGTGCCAGGATACAGCGGAGACCAGTGTGAACCTTGATTTTGATGAATGTCACTCTAATCCCTGTC
GTAATGGAGCCACTTGTGTTGATGGTTTTAACACATTAGGTGCCTCTGCCTTCCAAGTTATGTTGGTGCACCTT
GTGAGCAAGATACCGAGACATGTGACTATGGCTGGCACAATTTCAAGGGCAGTGCTACAAATACTTTGCCCATC
GACGCACATGGGATGCAGCTGAACGGGAATGCCGTCTGCAGGGTGCCCATCTCACAAGCATCCTGTCTCACGAAG
AACAAATGTTTGTAAATCGTGTGGGCCATGATTATCAGTGGATAGGCCTCAATGACAAGATGTTTGAGCATGACT
TCCGTTGGACTGATGGCAGCACACTGCAATACGAGAATTGGAGACCCAACCAGCCAGACAGCTTCTTTTCTGCTG
GAGAAGACTGTGTTGTAATCATTGCGCATGAGAATGGCCAGTGAATGATGTTCCCTGCAATTACCATCTCACCT
ATACGTGCAAGAAAGGAACAGTTGCTTGCGGCCAGCCCCCTGTTGTAGAAAATGCCAAGACCTTTGGAAAGATGA
AACCTCGTTATGAAATCAACTCCCTGATTAGATACCACTGCAAGATGGTTTCATTCAACGTCACCTTCCAACCTA
TCCGGTGCTTAGGAAATGGAAGATGGGCTATACCTAAAATTACCTGCATGAACCCATCTGCATACCAAAGGACTT
ATTCTATGAAATACTTTAAAAATTCCTCATCAGCAAAGGACAATTCAATAAATACATCCAAACATGATCATCGTT
GGAGCCGGAGGTGGCAGGAGTCGAGGCGCTGATCCCTAAAATGGCGAACATGTGTTTTTCATCATTTTCAGCCAAAG
TCCTAACTTCTGTGCCTTTCTATCACCTCGAGAAGTAATTATCAGTTGGTTTTGGATTTTTGGACCACCGTTCA
GTCATTTTGGGTGGCGTGCTCCCAAAACATTTTAAATGAAAGTATTGGCATTCAAAAAGACAGCAGACAAAATG
AAAGAAAATGAGAGCAGAAAGTAAGCATTTCAGCCTATCTAATTTCTTTAGTTTTCTATTTGCCTCCAGTGCAG
TCCATTTCTAATGTATACCAGCCTACTGTACTATTTAAAATGCTCAATTTACGACCCGATGGCCATGTAAATAA

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FIGURE 924D

GATGATTTAATGTTGATTTTAATCCTGTATATAAAATAAAAAGTCACAATGAGTTTGGGCATATTTAATGATGAT
TATGGAGCCTTAGAGGTCTTTAATCATTGGTTCGGCTGCTTTTATGTAGTTTAGGCTGGAAATGGTTTCACTTGC
TCTTTGACTGTCAGCAAGACTGAAGATGGCTTTTCCTGGACAGCTAGAAAACACAAAATCTTGTAGGTCATTGCA
CCTATCTCAGCCATAGGTGCAGTTTGCTTCTACATGATGCTAAAGGCTGCGAATGGGATCCTGATGGAACATAAGG
ACTCCAATGTCGAACCTCTTCTTTGCTGCATTCCTTTTCTTCACTTACAAGAAAGGCCTGAATGGAGGACTTTTC
TGTAACCAGG

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FIGURE 925

MFINIKSILWMCSTLIVTHALHKVKVGKSPVVRGSLSGKVS L PCHFS T MPTLP P S Y N T S E F L R I K W S K I E V D K N G
KDLKETTVLVAQNGNIKIGQDYKGRVSVPTHP EAVGDASLTVVKLLASDAGLYRCDVMYGIEDTQDTVSLTVDGV
VFHYRAATSRYTLNFEEAAQKACLDVGAVIATPEQLFAAYEDGFEQCDAGWLADQTVRYP I R A P R V G C Y G D K M G K A
GVRTYGFRSPQETYDVYCYVDHLDGDV FHLTVPSKFTFE E A A K E C E N Q D A R L A T V G E L Q A A W R N G F D Q C D Y G W L S
DASVRHPVTVARAQCGGGLLGVRTLYRFENQTGFPPPD S R F D A Y C F K P K E A T T I D L S I L A E T A S P S L S K E P Q M V S
DRTTPIIPLVDELPIPTFEPPVGNIVSFEQKATVQPQAITDSLATKLPTPTGSTKKP W D M D D Y S P S A S G P L G K L
DISEIKEEVLQSTTGVS HYATDSWDGVVEDKQTQESVTQIEQIEVGPLVTSMEILKHIPSKEFPVTETPLVTARM
ILES K T E K K M V S T V S E L V T T G H Y G F T L G E E D D E D R T L T V G S D E S T L I F D Q I P E V I T V S K T S E D T I H T H L E D L E S V
S A S T T V S P L I M P D N N G S S M D D W E E R Q T S G R I T E E F L G K Y L S T T P F P S Q H R T E I E L F P Y S G D K I L V E G I S T V I Y P S
L Q T E M T H R R E R T E T L I P E M R T D T Y T D E I Q E E I T K S P F M G K T E E E V F S G M K L S T S L S E P I H V T E S S V E M T K S F D F P
T L I T K L S A E P T E V R D M E E D F T A T P G T T K Y D E N I T T V L L A H G T L S V E A A T V S K W S W E D E N T T S K P L E S T E P S A S S K
L P P A L L T T V G M N G K D K D I P S F T E D G A D E F T L I P D S T Q K Q L E E V T D E D I A A H G K F T I R F Q P T T S T G I A E K S T L R D S
T T E E K V P P I T S T E G Q V Y A T M E G S A L G E V E D V D L S K P V S T V P Q F A H T S E V E G L A F V S Y S S T Q E P T T Y V D S S H T I P L
S V I P K T D W G V L V P S V P S E D E V L G E P S Q D I L V I D Q T R L E A T I S P E T M R T T K I T E G T T Q E E F P W K E Q T A E K P V P A L S
S T A W T P K E A V T P L D E Q E G D G S A Y T V S E D E L L T G S E R V P V L E T T P V G K I D H S V S Y P P G A V T E H K V K T D E V V T L T P R
I G P K V S L S P G P E Q K Y E T E G S S T T G F T S S L S P F S T H I T Q L M E E T T T E K T S L E D I D L G S G L F E K P K A T E L I E F S T I K
V T V P S D I T T A F S S V D R L H T T S A F K P S S A I T K K P P L I D R E P G E E T T S D M V I I G E S T S H V P P T T L E D I V A K E T E T D I
D R E Y F T T S S P P A T Q P T R P P T V E D K E A F G P Q A L S T P Q P P A S T K F H P D I N V Y I I E V R E N K T G R M S D L S V I G H P I D S E
S K E D E P C S E E T D P V H D L M A E I L P E F P D I I E I D L Y H S E E N E E E E E C A N A T D V T T T P S V Q Y I N G K H L V T T V P K D P E
A A E A R G Q F E S V A P S Q N F S D S S E S D T H P F V I A K T E L S T A V Q P N E S T E T T E S L E V T W K P E T Y P E T S E H F S G G E P D V
F P T V P F H E E F E S G T A K K G A E S V T E R D T E V G H Q A H E H T E P V S L F P E E S S G E I A I D Q E S Q K I A F A R A T E V T F G E E V E
K S T S V T Y T P T I V P S S A S A Y V S E E E A V T L I G N P W P D D L L S T K E S W V E A T P R Q V V E L S G S S S I P I T E G S G E A E E D E D
T M F T M V T D L S Q R N T T D L I L T L D T S R I I T E S F F E V P A T T I Y P V S E Q P S A K V V P T K F V S E T D T S E W I S S T T V E E K K R
K E E E G T T G T A S T F E V Y S S T Q R S D Q L I L P F E L E S P N V A T S S D S G T R K S F M S L T T P T Q S E R E M T D S T P V F T E T N T L E
N L G A Q T T E H S S I H Q P G V Q E G L T T L P R S P A S V F M E Q G S G E A A D P E T T T V S S F S L N V E Y A I Q A E K E V A G T L S P H V E
T T F S T E P T G L V L S T V M D R V V A E N I T Q T S R E I V I S E R L G E P N Y G A E I R G F S T G F P L E E D F S G D F R E Y S T V S H P I A K
E E T V M M E G S G D A A F R D T Q T S P S T V P T S V H I S H I S D S E G P S S T M V S T S A F P

AGCTAGCTGCAGCGACTACCGCAATCATCACAGCCTGTTGAACCTCTTCTGAGCAAGAGAGGGGAGGCGGGGTAAG
GGAAGTAGGTGGAAGATTACAGCCAAGCTCAAGGATGGAAGTGCAGTTAGGGCTGGGAAGGGTCTACCCTCGGCCG
CCGTCCAAGACCTACCGAGGAGCTTTCCAGAATCTGTTCCAGAGCGTCCGCGAAGTGATCCAGAACCCGGGCCCG
AGGCACCCAGAGGCCGCGAGCGCAGCACCTCCCGCGCGCCAGTTTGCTGCTGCTGCAGCAGCAGCAGCAGCAGCAG
CAGCAGCAGCAGCAGCAGCAGCAGCAAGAGACTAGCCCCAGGCAGCAGCAGCAGCAGCAGCAGGCTGAGGATGTTTCT
CCCCAAGCCCATCGTAGAGGCCCCACAGGCTACCTGGTCTCTGGATGAGGAACAGCAACCTTTCACAGCCGCAGTCG
GCCCTGGAGTGCCACCCCGAGAGAGGTTGCGTCCCAGAGCCTGGAGCCGCCGTGGCCGCCAGCAAGGGGCTGCCG
CAGCAGCTGCCAGCACCTCCGGACGAGGATGACTCAGCTGCCCCATCCACGTTGTCCCTGCTGGCCCCACTTTCT
CCCGGCTTAAGCAGCTGCTCCGCTGACCTTAAAGACATCCTGAGCGAGGCCAGCACCATGCAACTCCTTCAGCAA
CAGCAGCAGGAAGCAGTATCCGAAGGCAGCAGCAGCGGGAGAGCGAGGGAGGCCTCGGGGGCTCCCACTTCCTCC
AAGGACAATTACTTAGGGGGCACTTCGACCATTCTTGACAACGCCAAGGAGTTGTGTAAAGCAGTGTCGGTGCTC
ATGGGCCTGGGTGTGGAGGCGTTGGAGCATCTGAGTCCAGGGGAACAGCTTCGGGGGGGATTGCATGTACGCCCCA
CTTTTGGGAGTTCCACCCGCTGTGCGTCCCACTCCTTGTCGCCCATTTGGCCGAATGCAAAGGTTCTCTGCTAGAC
GACAGCGCAGGCAAGAGCACTGAAGATACTGCTGAGTATTCCCCTTTCAAGGGAGGTTACACCAAAGGGCTAGAA
GGCGAGAGCCTAGGCTGCTCTGGCAGCGCTGCAGCAGGGAGCTCCGGGACACTTGAAGTGCCTCTACCCCTGTCT
CTCTACAAGTCCGGAGCACTGGACGAGGCAGCTGCGTACCAGAGTCGCGACTACTACAACCTTTCCACTGGCTCTG
GCCGGACCGCCGCCCCCTCCGCCGCCTCCCCATCCCCACGCTCGCATCAAGCTGGAGAACCCGCTGGACTACGGC
AGCGCCTGGGCGGCTGCGGCGGCGCAGTGCCGCTATGGGGACCTGGCGAGCCTGCATGGCGCGGGTGCAGCGGGA
CCCGGTTCTGGGTACCCCTCAGCCGCGCTTCTCTATCTTGGCACACTCTCTTCACAGCCGAAGAAGGCCAGTTG
TATGGACCGTGTGGTGGTGGTGGGGGTGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCTGTA
GCCCCCTACGGCTACACTCGGCCCCCTCAGGGGCTGGCGGGCCAGGAAAGCGACTTCACCGCACCTGATGTGTGG
TACCCTGGCGGCATGGTGAGCAGAGTGCCCTATCCAGTCCCCTTTGTGTCAAAGCGAAATGGGCCCTGGATG
GATAGCTACTCCGGACCTTACGGGGACATGCGTTTGGAGACTGCCAGGGACCATGTTTTGCCATTGACTATTAC
TTTCCACCCCAAGAAGACCTGCCTGATCTGTGGAGATGAAGCTTCTGGGTGTCACTATGGAGCTCTCACATGTGGA
AGCTGCAAGGTCTTTCTTCAAAGAGCCGCTGAAGGGAAACAGAAGTACCTGTGCGCCAGCAGAAATGATTGCACT
ATTGATAAATTCCGAAGGAAAAATTGTCCAATCTTGTGCTCTTCGAAATGTTATGAAGCAGGGATGACTCTGGGA
GCCCCGAAGCTGAAGAACTTGGTAATCTGAACTACAGGAGGAAGGAGAGGCTTCAGCACCACCAGCCCCACT
GAGGAGACAACCCAGAAGCTGACAGTGTCACACATTGAAGGCTATGAATGTCAGCCCATCTTTCTGAATGTCCTG
GAAGCCATTGAGCCAGGTGTAGTGTGTGCTGGACACGACAACAACCAGCCGACTCCTTTGCAGCCTTGCTCTCT
AGCCTCAATGAAGTGGGAGAGAGACAGCTTGACAGTGGTCAAGTGGGCCAAGGCCTTGCTGGCCTCCGCAAC
TTACACGTGGACGACCAGATGGCTGTCAATCAGTACTCCTGGATGGGGCTCATGGTGTTTGCCATGGGCTGGCGA
TCCTTCACCAATGTCAACTCCAGGATGCTCTACTTCGCCCTGATCTGGTTTTCAATGAGTACCGCATGCACAAG
TCCCGGATGTACAGCCAGTGCTGCCGAATGAGGCACCTCTCTCAAGAGTTTGGATGGCTCAAATCACCCCCAG
GAATTCCTGTGCATGAAAGCCATGCTACTCTTCAGCATTATCCAGTGGATGGGCTGAAAAATCAAAAATTCTTT
GATGAACCTTCGAATGAAGTACATCAAGGAACTCGATCGTATCATTGCATGCAAAGAAAAATCCCACATCCTGC
TCAAGACGCTTCTACCAGCTCACCAAGCTCCTGGACTCCGTGCAGCCTATTGCGAGAGAGCTGCATCAGTTCACT
TTTGACCTGCTAATCAAGTCACACATGGTGAGCGTGGACTTTCCGGAATGATGGCAGAGATCATCTCTGTGCAA
GTGCCCAAGATCCTTTCTGGGAAAGTCAAGCCCATCTATTTCCACACCCAGTGAAGCATTGGAAACCCTATTTCC
CCACCCAGCTCATGCCCCCTTTCAGATGCTCTCTGCGCTGTTATAACTCTGCACTACTCCTCTGCAGTGCCTTGG
GGAATTTCTCTATTGATGTACAGTCTGTGATGAACATGTTCTGAAATCTATCTGCTGGGCTTTTTTTTTTCTCT
TTCTCTCCTTTCTTTTTCTTCTTCCCTCCCTATCTAACCCTCCCATGGCACCTTCAGACTTTGCTTCCCATTTGTG
GCTCCTATCTGTGTTTTGAATGGTGTGTATGCCTTAAATCTGTGATGATCCTCATATGGCCAGTGTCAAGTTG
TGCTTGTTTACACGCATCTCTGTGCCAGCCACACAAACCGTTTACTTACTTACCGCAAGGGAAGCTTAGAGAGCTA
GAATTC

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FIGURE 927

MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQQQQQQQQQQQQQET
SPRQQQQQQGEDGSPQAHRRGPTGYLVLDDEEQPSQPQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDD
SAAPSTLSLLAPTFFPGLSSCSADLKDILSEASTMQLLQQQQQEAVSEGSSSGRAREASGAPTSSKDNYLGGTSTI
SDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCAPLAECKGSLLDDSDAGKSTEDTA
EYSPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPSTLSLYKSGALDEAAAYQSRDYNNFPLALAGPPPPPPPH
PHARIKENPLDYGSAAAAAQCRYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGG
GGGGGGGGGEAGAVAPYGYTRPPQGLAQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWMDSYSGPYGDMR
LETARDHVLPIIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASTRNDCTIDKFRKNCPS
CRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTTEETTQKLTVSHIEGYECQIFLNVLEAIEPGVVCAG
HDNNQPDFAALLSSLNELGERQLVHVVKWAKALPGLRNLHVDDQMAVIQYSWMGLMVFAMGWSFTNVNSRMLY
FAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFQWLQITPQEFKCMKAMLLFSIIPVDGLKNQKFFDELRMNYIKEL
DRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDPEMMAEIIISVQVPKILSGKVKE
IYFHTQ

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FIGURE 928

GGAGGTGGGAAGTATCCCGGGCTGGGGGTGGGGGTACGCCGCACAGCTCCAGTCGCCGTCGCGGCTTCCGGTGCT
AGGTGGAGGGAAGGAAGGAGGGAGCCGGGGAGTGGGCCAGGGCAGCAGCCGGGCTGAAGTCGGCTTGGGGAGCCA
GAGGGAGCGGAGCGGAACCTGCGGGGCAGAGGCGGGCGGCCGAGCGGCGCAGCTGATAGCAGGAACAGGATCAAG
TCTTCCATACCAGGGACCAGGCCAAAACCAGACTGCCACTGCCCTACTTGGGCCCCACTGTCCCCAGAAAGCAG
CTGCTGTGATCATGGGCAATATCTTTGGAAACCTTCTCAAGAGCCTGATTGGGAAGAAGGAGATGCGCATCCTGA
TGGTGGGCTGGATGCCGCAGGAAAGACCACCATCCTATACAAGCTGAAACTGGGGGAGATCGTCAACCACCATCC
CTACCATTGGGTTCATGTGGAGACAGTGGAGTATAAGAACATCAGCTTTACAGTGTGGGATGTGGGTGGCCAGG
ACAAGATTGACCCCTCTGGAGACACTACTTCCAGAACACCCAAGGGTTGATATTTGTGGTGCAGACGAATGATC
GGGAGCGAGTAAATGAGGCCCGGGAAGAGCTGATGAGAATGCTGGCGGAGGACGAGCTCCGGGATGCTGTACTCC
TTGTCTTTGCAAACAAACAGGATCTGCCTAATGCTATGAACGCTGCTGAGATCACAGACAAGCTGGGCCTGCATT
CCCTTCGTCACCGTAACTGGTACATTACAGGCCACCTGTGCCACCAGCGGGGACGGGCTGTACGAAGGCCTGGACT
GGCTGGCCAATCAGCTCAAAAACAAGAAGTGAAGCCAGACAGCCCTAACAAAGCACCCACCCACCCCTGACAT
ACCTACTGTACCCCTGCCCCAGTCTACCCCTTCCTCTCCATGCAAGTGTGGCCAGGGCCCTGGGTATCATGTCC
ACATGCCCAGCAAGAGCCTTGCCCTCCCCTGCCCTCCCCCTCTTTTCTGTCCACCTATATGACCAATCCCTAATT
GCTGTCTGATGATGAGTCATTCCAATTTACTGGATTTAAAAACAAAAGTTGTTACGGTTTCATGGGGTGGCCCC
TCTCTCTCTCTCACCTCTGGGTTTCGGGAGGTCGAGTGGGGTATTCTCTTTGTTTGGCAGTGGTTGCTGTCTCT
TGGCATCTGAGTCCTTTCCCTGTCCCCACAAGCCCTTCTACTCCCTGTTTGCCTTTCTTTGCCACCCCTCTCCCT
GTTTTACATGGAAATTGCACGGGCCCTCTCTGTGTTTGCCTGCATGTGTGCGCCTGTATATACATGTATAGAGAGA
TATATTTGTGGGGGCCGGGGGAGCGGGGAGGGGGTGGAGTGAAGCTCAGGGCTTGACGCCAGGACACTGCCCCAC
TGGAGCCTGTATCTGCCCCCTTCCGTGTTGGTGAGATTAAGGGAAGAAGGTGGGAGGGCATTAGTCAAGCCGGAC
TGCCCCAGTCTTTGACTGGTTACCCTCCTCTCTGCAGGTAGGTTTTCTGGATGATAGGACAGATGATGGATTCT
TCACCACCATTTTCTTGTACTCTTCTCTCCACCCCTTCTTAGGGCTGGAGGATGGCATTATCTCTAGATGACTG
TTCCCAAGGAGATGCCACTCTGCTCTGCCTTACTGTTGGGAAGGAGAGAGGAACCCACTCACTCTTATCAGCTTA
GAGTGTTCAACTGATCCTTCCCCACCATCTTCAGATCTGTTCCCTTGAGCTTGACTGGGGGGTGGGGATGGCAA
GTCCATGGTGTGTGTTAGGGACCCAGGGCATTGGGGGAAGGGAGGCGAAGGCCTGAGGTTTTCCATCTTCATTCT
CTTTTGTATTAGGAGAAGGTGAGGCATGGGGCAATCCCATTCCTGCCTTCCAGTGCCCCACCACCCCTTCTGATC
TTAGGGGTGGATGGGTCTGTCTTGGTTCAGAAATTTCTCACCCCTAGTACTCTACTGGCCTGACCAGGGCT
GACTGGGTATTCTAATGAGGAGCTGGGAAGTGGGGTGACATAGCTGACCTTAGTATCAACCCCCCTCTTCTCCAA
CTCTTGTTTTCTAGTCCAGGATATGCTAAAGGACGAAGATTTCTATTGTTTCCAGGCCCTCAGACCATCCTTGC
TGTCCTTACCCCTCCATGCCCCCTGCCATCCTCACTCACTTCTCATAAATGGATCTGGGGGTTAGAGTGGAGGAA
ATAAAATCCTGAAGTGGTTGTCTAGTGCTTGTGGGATGCAGTGGTCTTCAGGATTCTCCCCGCATTATTATGTAGT
TGTTTCAGAAGCTGTTGCTACTGCGTCTCTCTGTCTGCAGGGGGCACTTGTTCTGAGGTCTCGCCTGGGTCTCTG
ACTTCTGTAGTTTCTGTGAAGACGTGGCTGTCTGTGGGCTCCTGTGTGTGTGTGTGTGTGTGTGTGTGTATATGG
AGCTGCCCATAACCTGCTAAGGTCAGGGCCCCAGGGCCCCCACAGCATGGCTGAGGGACCCCTTCCAGTAGGGC
TGTCCTCAAGCCCCACTCCATGGGGCCAGGTTCCTGGCCACTTTTGTGATAGCAGATGGATCAATATTAGTAAC
CCCATCCAAGATTGAACTGTGAAAGAGAGGTTCCAGGGGTATCTCCCTCAGTGCCAGTTACTTAGTGATGTGTTA
CCCAGGATGCAGCAGGTGTGTGCAGGTATCTTGCTCTCTAGGCCTGTGTGTGTGTGTGTGTGTGTGTATATGG
GTGTGGGTGTGTTTGTGTGTGGTGGTTGTGGGGGGGGTGTGGAGGTTCTATTTCAATTAATAATGTATTCAATT
CCCTGGCCCCACAGATGCTTCCCTCCATACTTTTTATTTGCTCTGTTTCCCTCAGATTTATTTGTCTTGCCCCAT
TGCCCTCTCCTTCTTGAACCTTTTCCCTTTCAATCTCAACTCATTCACTGCTGTTGCTCATTGCCCCCTTTCCAT
GTATTTTTTCTACTTAGGATTTTCCACTCTATCTTTGTGGTTCATGAGGACTTTGCCTCTTCTCCTGCCTCATT
CCCTGACTTTCTCTAGTTAGATGTCAGTCCTAAATAGGTTTTCTCACTTCAGGCCTCACCCCTCACCTTGTTTT
TTTGGGGGCTCCAGGGACCAATCTGGGGCTGGAAATGTTAGGAGGTTGCCTTGGTGTGCTGCCCCAGATCTGTCCAG
CAGGGGGCAGTAAGTGATCTTGGTAGTATCCCTGGCTGCTAAGCCCTTGGCAGGGGTGGTCTTTCTACATTCCC
ATTCACTTAACAGCTCTTTTGGGATTGGGTGTTTCAATCCATTTCTGCCACTCCCTCTCCTCTCCTCTCTGGTA
GGTTTAATTTTATGCTTTCCCTGATTCCAGCTTTCTGCTTCTGAGGACTCCCGCTCCCCCACCACAAAGTTTG
TCTGTGGTGTATAGTGGTAAGTGCAGTTCCTCCTCTGGAATGTAGACTGTATATGTTTAATAACTCACCTTCTC
TATCCTTGCTCAAAATGTGGGATAACGCGATGACTGTGACCCTGGTTGGAAATTAAGCTTGTTTTATGCA

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FIGURE 929

MGNIFGNLLKSLIGKKEMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIR
PLWRHYFQNTQGLIFVVDSDNRERVNEAREELMRMLAEDEL RDAVLLVFANKQDLPNAMNAAEITDKLGLHSLRH
RNWYIQATCATSGDGLYEGLDWLANQLKNKK

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FIGURE 930

CAGCCAGCGCCCGCGATGACTGCCACTCTCCGCCCCCTACCTGAGTGCCGTGCGGGCCACATTGCAGGCTGCCCTC
TGCCTGGAGAACTTCTCCTECCAGGTTGTGGAACGACACAACAAGCCGGAAGTGGAAGTCAGGAGTAGCAAAGAG
CTCCTGTTACAACCTGTGACCATCAGCAGGAATGAGAAGGAAAAGGTTCTGATTGAGGGCTCCATCAACTCTGTC
CGGGTCAGCATTGCTGTGAAACAGGCTGATGAGATCGAGAAGATTTTGTGCCACAAGTTCATGCGCTTCATGATG
ATGCGAGCAGAGAACTTCTTTATCCTTCGAAGGAAGCCTGTGGAGGGGTATGATATCAGCTTTCTGATCACCAAC
TTCCACACAGAGCAGATGTACAAACACAAGTTGGTGGACTTTGTGATCCACTTCATGGAGGAGATTGACAAGGAG
ATCAGTGAGATGAAGCTGTGAGTCAATGCCCCGTGCCCGCATTGTGGCTGAAGAGTTCCTTAAGAATTTTTAAACC
ATCTGGCTGGATCTCGTGGCCTTCCCCCTCAGACTACCCATGTCTCCACGAAGGCGTCCTGGAGTCACTCCCCGA
GCAGCGCGGCGGCGGCAGGGAGTTGGGTTGGGGTGGGCATTTGATGCGGGAGGTGGGTGGTGTGCTTGCTAGCTG
GGCAAGAAAGCAGCAGTGGACCTGCCCCAAGGCCACACGTGCCTGGTCAGGCTGGCTTCTGATGTTTCAGTCCCCT
GGGCCGGGACAGATTTTTTTTAACTCTTGAACCTTAACTCTGTGCTTGTAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 931

MTATLRPYLSAVRATLQAALCLENFSSQVVERHNKPEVEVRSSKELLQPVTISRNEKEKVLIEGSINSVRVSIA
VKQADEIEKILCHKFMRFMMRAENFFILRRKPVEGYDISFLITNFHTEQMYKHKLVDFVIHFMEEDKEISEMK
LSVNARARIVAEFLKNF

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FIGURE 932

CCGCAGGCGCTCGGGGTTGGAGCCAGCGACCGTCGGTAGCAGCATGGCTCTCCTCTTTCTCCTACCCCTTGTCAT
GCAGGGTGTGAGCAGGGCTGAGATGGGCACCGCGGATCTGGGGCCGTCCTCAGTGCCTACACCAACTAATGTTAC
AATTGAATCCTATAACATGAACCCATATCGTATATTGGGAGTACCAGATCATGCCACAGGTCCCTGTTTTTACCGT
AGAGGTAAAGAACTATGGTGTTAAGAATTCAGAATGGATTGATGCCTGCATCAATATTTCTCATCATTATTGTAA
TATTTCTGATCATGTTGGTGATCCATCAAATCTCTTTGGGTCAGAGTTAAAGCCAGGGTTGGACAAAAAGAATC
TGCCTATGCAAAAGTCAGAAGAATTTGCTGTATGCCGAGATGGAAAAATTGGACCACCTAAACTGGATATCAGAAA
GGAGGAGAAGCAAAATCATGATTGACATATTTACCCTTCAGTTTTTGTAAATGGAGACGAGCAGGAAGTCGATTA
TGATCCCGAAACTACCTGTTACATTAGGGTGTACAATGTGTATGTGAGAATGAACGGAAGTGAGATCCAGTATAA
AATACTCACGCAGAAGGAAGATGATTGTGACGAGATTTCAGTGCCAGTTAGCGATTCCAGTATCCTCACTGAATTC
TCAGTACTGTGTTTCAGCAGAAGGAGTCTTACATGTGTGGGTGTTACAACCTGAAAAGTCAAAAAGAAGTTTGTAT
TACCATTTTCAATAGCAGTATAAAAGGTTCTCTTTGGATTCCAGTTGTTGCTGCTTTACTACTCTTTCTAGTGCT
TAGCCTGGTATTTCATCTGTTTTTATATTAAGAAAATTAATCCATTGAAGGAAAAAAGCATAATATTACCCAAGTC
CTTGATCTCTGTGGTAAGAAGTGCTACTTTAGAGACAAAACCTGAATCAAAATATGTATCACTCATCACGTCATA
CCAGCCATTTTCCCTTAGAAAAGGAGGTGGTCTGTGAAGAGCCGTTGTCTCCAGCAACAGTTCAGGCATGCATAC
CGAAGACAATCCAGGAAAAGTGGAACATACAGAAGAATTTCTAGTATAACAGAAGTGGTGACTACTGAAGAAAA
TATTCCTGACGTGGTCCCGGGCAGCCATCTGACTCCAATAGAGAGAGAGAGTTCTTCACCTTTAAGTAGTAACCA
GTCTGAACCTGGCAGCATCGCTTTAACTCGTATCACTCCAGAAATTGTTCTGAGAGTGATCACTCCAGAAATGG
TTTTGATACTGATTCCAGCTGTCTGGAATCACATAGCTCCTTATCTGACTCAGAAATTTCCCCCAAATAATAAGG
TGAAATAAAACAGAAGGACAAGAGCTCATAACCGTAATAAAAGCCCCCACCTCCTTTGGTTATGATAAACCACA
TGTGCTAGTGGAATCTACTTGTGGATGATAGCGGTAAAGAGTCCTTGATTGGTTATAGACCAACAGAAGATTCCAA
AGAATTTTCATGAGATCAGCTAAGTTGCACCAACTTTGAAGTCTGATTTTCTGACAGTTTTCTGCTTTAATTT
CATGAAAAGATTATGATCTCAGAAATTGTATCTTAGTTGGTATCAACCAAATGGAGTGACTTAGTGTACATGAAA
CCGTAAAGAGGATGTGTGGCATTTCACCTTTGGCTTGTAAGTACAGACTTTTTTTTTTTTTTAAACAAAAAAA
GCATTGTAACCTTATGAACCTTTACATCCAGATAGGTTACCAGTAACGGAACATATCCAGTACTCCTGGTTCCTAG
GTGAGCAGGTGATGCCCCAGGGACCTTTGTAGCCACTTCACCTTTTTTCTTTCTCTGCCTTGGTATAGCATATG
TGTTTTGTAAAGTTTATGCATACAGTAATTTAAGTAATTTCAGAAGAAATTCCTGAAGCTTTTCAAAATTGGACT
TAAATCTAATTCAACTAATAGAATTAATGGAATATGTAAATAGAAACGTGTATATTTTTTATGAAACATTACA
GTTAGAGATTTTTAAATAAAGAATTTTAAACTC

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FIGURE 933

MALLFLLPLVMQGVSRAMGTADLGPSSVPTPTNVTIESYNMNP IVYWEYQIMPQVPVFTVEVKNYGVKNSEWID
ACINISHHYCNISDHVGDPNSNLWVRVKARVGQKESAYAKSEEFVAVCRDGKIGPPKLDIRKEEKQIMIDIFHPSV
FVNGDEQEVVDYDPETTCYIRVYNVYVRMNGSEIQYKILTQKEDDCDEIQCQLAIPVSSLNSQYCVSAEGVLHVWG
VTTEKSKEVCITIFNSSIKGSLWIPVVAALLLFLVLSLVFICFYIKKINPLKEKSIILPKSLISVVR SATLETKP
ESKYVSLITSYQPFSLKEVVC EEP LSPATVPGMHTEDNPGKVEHTEELSSITEVV TTEENIPDVVPGSHLTPIE
RESSSPLSSNQSEPGSIALNSYHSRNCSESDHSRNGFDTDSSCLES HSSLSDSEFPNNKGEIKTEGQELITVIK
APTSFGYDKPHVLVDLLVDDSGKESLIGYRPTEDSKEFS

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FIGURE 934

GGGGAGAATCTGGTGGATGCTGGACCTTGCTGCTGCTGCTACTGCTGTTTCCAGGGGCTGCAGAGCATGGACTGT
TAAATCTTGCACTTCTTCTGAGTGAGCTGAATTCTTGCCGCCAGGATGGGGAAACAGAACAGCAAGCTGCGCCCCG
GAGGTCATGCAGGACTTGCTGGAAAGCACAGACTTTACAGAGCATGAGATCCAGGAATGGTATAAAGGCTTCTTG
AGAGACTGCCCCAGTGGACATTTGTCAATGGAAGAGTTTAAAGAAAATATATGGGAACTTTTTCCCTTATGGGGAT
GCTTCCAAATTTGCAGAGCATGTCTTCCGCACCTTCGATGCAAATGGAGATGGGACAATAGACTTTAGAGAATTC
ATCATCGCCTTGAGTGTAACCTTCGAGGGGGAAGCTGGAGCAGAAGCTGAAATGGGCCTTCAGCATGTACGACCTG
GACGGAAATGGCTATATCAGCAAGGCAGAGATGCTAGTGATCGTGACGGCAATCTATAAGATGGTTTTCTCTGTGA
ATGAAAATGCCTGAAGATGAGTCAACCCCAGAGAAAAAGAACAGAAAAGATCTTCCGCCAGATGGACACCAATAGA
GACGGAAAACCTCTCCCTGGAAGAGTTTATCCGAGGAGCCAAAAGCGACCCGTCCATTGTGCGCCTCCTGCAGTGC
GACCCGAGCAGTGCCGGCCAGTTCTGAGCCCTGCGCCCAACCAATCGAATTGTAGAGCTGCTTGTGTTCCCTTTTG
ATTCTTCTTTTTAACAATTTTTTTTTTTTTTTTGGCCAAACAATATCAATGGTGATGCCGTCCCCTGTGCGGTCTGA
TGCGCCTTCCCTCCGTGACGCCTTCAGCCTCTTTTGTCTGGATGCTTCGTGGGAATGCCAGAGCCCCAGTGTGC
TTGTGGAGAGCATGGACAGACTTCGTGGTGTTCATTGTTTGATGATTTTTAATCGTTACTATTATTCTTTTTAT
TCTAATGTCTCTGTTCTAAACGTAAGACTCGGGGGTGGGGCAAAGAAGGGAAACCCATCCAGTCCCTGTGATT
CTATTGCAAGCTTCAAGGGGCTTTTGTTTGAAAGACAAAACCTCCACCTGGGTCTGTTGTACACGTGCCGTAG
GGGTGATGGATGGCACCAGGATGCTGGATTCCCCAAGAACAAGTTACCCTCTGGGGTGAGGCTATTCCAGCGAGCT
GGGACATTTCCCATGGGGGGCCACTCCCTCTCTTCCCCAGCAGGCTGTAGTTTCTAAGCTGTGAACATTTCAA
GATAAATTAACAGAGGAGAGGAAAAAGATGGCTCAGCTATTTTTTACAGGTTTACACTAGTTGAGCTAATATGC
GTGTCTTTGGAAATTAACACAAATGGTAACATATCCAAAACCAGACCCATCTTGTGCTTATTGTGATAAAAT
AAAAAGACGGCTGTATATAACATATTGGGTAATGCAGACCAAATTAAGTGTTTTGCCTTGTTTAAATGAAATGCA
TGTTTAGTGAGCACTAATAACAATCTTATTCCAGAAGACTGTTTTTAGTAGCTTATTGTGAAGTAAGACAATATA
ATGAATGTCTGTCTTGTTTGGAAGTCATATCTGTCTTTGCACAAATGTACCAATCGACAAGTATATTTTATATAT
TCCATAAAAATACAAAGTAACCTGACTAGGGCCCCAACTTTAATTTTGAATGCATTTCCAGAGTGGCCATGCCTA
GAGGGCAGATGCAGAGCAGGTGGTAGTGGGACAGGACAATTGGAGCACAGGAATGTTAACATGTATGACAGGGGA
CCAGTAGGGTGGTTTTCCCTCTCAGGCCCAGCAGCCCATTGACAGCATTAGACTGGCGGCATGGTGCTTTTCTGAG
CAGATCAATACTCTGCAGACTCGAAAAACATCACATACATTCTTGGAACTTCCAGTGGTTAATCTATGTGCA
TGGTTAGGGAGCCAGGCCTGGAATATTAGTTTCCCTGCCCCCTGTTAAAGAATCAGAGGTTGGGCAGTCATCAAA
TTCATCATAAAGACATGGGCAAGTGTGTCTGTGGTTTCCAAGGCCCCCTATGGAGAATCCAAAAGTATTTTCCA
TTGCCGTGCTCTTTGAATGCAGACTTCTATTTCCAGAAGTGACAGCACAAAGTCTGAGTTGCTGTTTGGTCTGGTG
ACCTCAGACACACTAATTTGAATTGAAAGCTAAGAGTAAAAATTTGCTGGTTACAGGCGAGTCATACTCTTGCAA
GTAGTTAGCAAAGGGAGGCCCAAATTTCTCAAGGTTGTTGATGGGGAACCTTGCCACTAAGAGAAGGCAGAGAGGTC
CCTAGTGGGTATATTTGCTGCCAAGCCACTTGCCAAAGAAGAGGAACCACAGAAAGAGAGACATCATGACCAGGA
GAAAAATGTGACTAGACATGCTAACCTCCAGGTTTTTATATATGACTTGAGTCTGCTGTAATTGGCAGCAGAAAT
CCAAATTTGTATGGTAGACCAAAAAGAACCAATCCATAGGGTGAAATTTTGAGACCTAGACTCTGTAAAAATAA
TCCTAGTCTTCCCTCCAGGGGTGAGTTCCCTCACAGTGGTCTGTACCAAAACTTGCCAAATTCCTCCATGGCCAAG
TGTTAAAAATCTGTGTTTGGAAAAATAGCGAATTAACCTAAGACACAGAAGGCAGACTGGGTGAGGAGACCTAGCAT
GCCCTATTGGCAGTGCTCAGGAGCTGCATCCCACTTTTCCCTGCTCTGAATCGAAGTCTAGTTCCCTTCCCTTGA
TTCTCCTTTGGTAGGTGGAATCAGTTAATGTTTGGAGAAACCTGCCTGGGCTCTGCCCTTAGTCATGACATCTCG
CTGAGCCAGACCCACTCTGTTCCCTTGGAACTAGAGCTGGAGTGAGGAGTAGAGGTCTCCGGCTATTCCAGAAAG
AAAAGTGAGCCACATGCAGGCTGATGAATGCCGACACTTCAGAATGTATAGAAATAGTCCCTGTCTTGGCCTGC
CACTGACCCTGTCTGTATTTTCTCGGAGGTTGTTTTCTCCTTCTCCTTCCCAGGAAGGTCTTTGTATGTGCAAT
CCAGTGCACCTCAAGTTTGGCCAAGGGACTCCACAGCACCAGAGGACTGCATGCCTCAAGGTTTATGTCACTCCT
CTGCTGGGCTGTTTATTGTATTGCTGTGTTTCAAGGACCTTTGGAAATAAAACCTGTTCTGTCCCAAATAAAACC
AGCCTGTGATGTTCAAGGGACTGGAATAAAGTGGCTTACGACCTGAAGGATTCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 935

MGKQNSKLRPEVMQDLLESTDFTEHEIQEWYKGFLRDCPSGHLSMEEFKKIYGNFFPYGDASKFAEHVFRTFDAN
GDGTIDFREFIIALSVTSRGKLEQKLKWAFSMYDLGNGYISKAEMLVIVQAIYKMVSSVMKMPEDESTPEKRTE
KIFRQMDTNRDGKLSLEEFIRGAKSDPSIVRLLQCDPSSAGQF

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FIGURE 936

ATGGGCGGGGCGCGGCTCGGAGCGCGAAACATGGCGGGGCAGGACGCTGGCTGCGGCCGTGGCGGGCGACGACTAC
TCAGAGGACGAGGGCGACAGCAGCGTGTCCAGGGCGGCTGTGGAGGTGTTGCGGAAGCTGAAGGACCTAAACTGC
CCCTTCCTCGAGGGTCTGTATATCACAGAGCCAAAGACAATTCAGGAAGTGTGTGCAGCCCCCTCAGAGTACCGC
TTGGAGATCCTAGAGTGGATGTGTACCCGGGTCTGGCCCTCACTGCAGGACAGGTTAGCTCACTGAAAGGGGTC
CCAACAGAGGTGAAGATCCAAGAAATGACGAAGCTGGGCCACGAGCTGATGCTGTGTGCGCCAGATGACCAGGAG
CTCCTCAAGGGCTGTGCCTGCGCCAGAACGAGCTACACTTCATGGACCAGTTGCTCGATAACCATCCGGAGCCTG
ACCATTGGGTGCTCCAGTTGCTCGAGCCTGATGGAGCACTTCGAGGACACCAGGGAGAAGAACGAGGCCTTGCTG
GGGGAGCTCTTCTCTAGCCCCACCTGCAGATGCTCCTGAATCCAGAGTGCACCCGCTGGCCCCCTGGACATGCAG
CCCCCTCCTCAACAAGCAGAGTGATGACTGGCAGTGGGCCAGTGCCTCTGCCAAGTCCGAGGAGGAGGAGAAGCTG
GCGGAGCTTGCCAGGCAGCTGCAGGAGAGTGCTGCCAAGTTGCACGCGCTTAGAACGGAGTCTACGACGACGAGC
TGGGCGAGTGCTGCCAGCGCCAGGCCCTGACCTCCACCCGTGCGGCCCATCATCCAGGCCACGCACCAGAATC
TGACTTCCTACAGCCAACTGCTGCAAGTGGTATGGCAGTTGCTGACACCTCTGCGAAGGCCGTGGAGACCGTGA
AGAAGCAGCAAGGCGAGCAGATCTGCTGGGGTGGCAGCAGCTCCGTCTAGTCTAGCTACCAAGATGAATGAAC
TAATGGAGAAATAGAAAGTCTTCAGTGATGGCCTACGCCAAAGCACAGGATGGGGCGGGCAGGAAGCCCTCTCCC
AAGATCGAGTTGGCCGAGGATGGATGATTGTGGCAGCAGAAGCCGTTGCAGCCCCACGTTGTGCTCTAGTTTGAG
GACTTGCTATCCCCGTGGGAACATCACCATGTCCGAGGCACCCCGGGCCGAGACCTTTGTCTTCCTGGACCTGGA
AGCCACTGGGCTCCCCAGTGTGGAGCCCGAGATTGCCGAGCTGTCCCTCTTTGCTGTCCACCGCTCCTCCCTGGA
GAACCCGGAGCACGACGAGTCTGGTGCCCTAGTATTGCCCGGGTCTTGACAAGCTCACGCTGTGCATGTGCCC
GGAGCGCCCTTCACTGCCAAGGCCAGCGAGATCACCGCCTGAGCAGTGAGGGCCTGGCGCGATGCCGGAAGGC
TGGCTTTGATGGCGCCGTGGTGCGGACGCTGCAGGCCTTCCTGAGCCGCCAGGCAGGGCCCATCTGCCTTGTTGGC
CCACAATGGCTTTGATTATGATTTCCCCCTGCTGTGTGCCGAGCTGCGGCGCCTGGGTGCCCCGCTGCCCCGGGA
CACTGTCTGCCTGGACACGCTGCCGGCCCTGCGGGGCCCTGGACCGCGCCACAGCCACGGCACCCGGGCCCCGGG
CCGCCAGGGTTACAGCCTCGGCAGCCTCTTCCACCGCTACTTCCGGGCAGAGCCAAGCGCAGCCCACTCAGCCGA
GGGCGACGTGCACACCCTGCTCCTGATCTTCTGCACCGCGCCGAGAGCTGCTCGCCTGGGCCGATGAGCAGGC
CCGTGGGTGGGCCCACATCGAGCCCATGTACTTGCCGCCTGATGACCCAGCCTGGAGGCCTGA

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FIGURE 937

MGRAGSPLPRSSWPRMDDCGSRSRCSP TLCSSLRTCYP RGNITMSEAPRAETFVFLDLEATGLPSVEPEIAELSL
FAVHRSSLENPEHDESGALVLP RVLDKLTLCMC PERPFTAKASEITGLSSEGLARCRKAGFDGAVVRTLQAFLSR
QAGPICLVAHNGFDYDFLLCAELRRLGARLPRDTVCLDTLPALRGLDRAHSHGTRARGRQGYSIGSLFHRYFRA
EPSAAHSAEGDVHTLLLIFLHRAAELLAWADEQARGWAHIEP MYLPPDDPSLEA

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FIGURE 938

AAACCAGAGCATCAGGGAAATGATAGGATGCTGTGGACTAAATGTCCGTTTTTCTCCCTGTTTTTCATTCTCCATGA
CACCTTCCCCTGTTGCACAGGATCTGGCAAGTCTGAAAATCCCTGAGCAATTCGACATGCGATCTGGAAGGGCA
TCCTGGACCACCGGCAGCTCCACGAATTCTCCTCCCCTTCTCATCTCCTGCGGACCCCAAGCAGTGCCCTCTACAG
TCAGTGTGGGCTCCAGTGAGACCCGGGGTGAGCGTGTATTGATGCTGTGCGATTACCCTCCGCCAGACCATCT
CTTTCCCACCCCGAGATGAGTGGAATGACTTCAACTTTGACATGGATGCTCGCCGCAATAAGCAACAGCGCATCA
AAGAGGAGGGGGAGTGAGCCTCACCATGTGAGCTCTTCCTATCCCTCTCCTAACTGCCAGCCCCCTAAAAGCACT
CCTGCTTAATCTTCAAAGCCTTCTCCCTAGCTCCTCCCCTTCTCTTGTCTGATTTCTTAGGGGAAGGAGAAGTA
AGAGGCTACCTCTTACCTAACATCTGACCTGGCATCTAATTCTGATTCTGGCTTTAAGCCTTCAAAA

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FIGURE 939

TCACCATGAATTCACTCAGTGAAGCCAACACCAAGTTCATGTTTCGATCTGTTCCAACAGTTCAGAAAAATCAAAAG
AGAACAACATCTTCTATTCCCCTATCAGCATCACATCAGCATTAGGGATGGTCCTCTTAGGAGCCAAAGACAACA
CTGCACAACAAATTAGCAAGGTTCTTCACTTTGATCAAGTCACAGAGAACACCACAGAAAAAGCTGCAACATATC
ATGTTGATAGGTCAGGAAATGTTTCATCACCAGTTTCAAAGCTTCTGACTGAATTCAACAAATCCACTGATGCAT
ATGAGCTGAAGATCGCCAACAAGCTCTTCGGAGAAAAGACGTATCAATTTTACAGGAATATTTAGATGCCATCA
AGAAATTTTACCAGACCAGTGTGGAATCTACTGATTTTGCAAATGCTCCAGAAGAAAGTCGAAAGAAGATTAACT
CCTGGGTGGAAGTCAAACGAATGAAAAAATTAAAAACCTATTTCTGATGGGACTATTGGCAATGATACGACAC
TGGTTCCTTGTAACGCAATCTATTTCAAAGGGCAGTGGGAGAATAAATTTAAAAAAGAAAACTAAAGAGGAAA
AATTTTGGCCAAACAAGGATGTACAGGCCAAGGTCTGGAAATACCATACAAAGGCAAAGATCTAAGCATGATTG
TGCTGCTGCCAAATGAAATCGATGGTCTGCAGAAGCTTGAAGAGAACTCACTGCTGAGAAATTGATGGAATGGA
CAAGTTTGCAGAATATGAGAGAGACATGTGTGATTTACACTTACCTCGGTTCAAATGGAAGAGAGCTATGACC
TCAAGGACACGTTGAGAACCATGGGAATGGTGAATATCTTCAATGGGGATGCAGACCTCTCAGGCATGACCTGGA
GCCACGGTCTCTCAGTATCTAAAGTCCTACACAAGGCCTTTGTGGAGGTCACTGAGGAGGGAGTGGAGCTGCAG
CTGCCACCGCTGTAGTAGTAGTCGAATTATCATCTCCTTCAACTAATGAAGAGTTCTGTTGTAATCACCCTTTCC
TATTCTTCATAAGGCAAAATAAGACCAACAGCATCCTCTTCTATGGCAGATTCTCATCCCCATAGA

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FIGURE 940

MNSLSEANTKFMFDLFQQFRKSKENNIFYSPISITSALGMVLGAKDNTAQQISKVLHFDQVTENTTEKAATYHV
DRSGNVHHQFQKLLTEFNKSTDAYELKIANLFGKTYQFLQEYLDAIKKFYQTSVESTDFANAPEESRKKINSW
VESQTNEKIKNLFPDGTIGNDTTLVLVNAIYFKGQWENKFKKENTKEEFKFWPNKDVQAKVLEIPYKGKDLSMIVL
LPNEIDGLQKLEEKLTAEKLEWTSLQNMRETCVDLHLPRFKMEESYDLKDTLRTMGMVNIFNGDADLSGMTWSH
GLSVSKVLHKAFVEVTEEGVEAAAATAVVVVVELSSPSTNEEFCCNHPFLFFIRQNKTNLSILFYGRFSSP

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FIGURE 941

GGCACGAGGGAAGGCCCTGGGCACCCTGGGCATGACGACAAATGAAAAGGGCCAGGTCGTGACCAAGACAGCACT
CCTGAAGCAGATGGAAGAGCTGATCGAGGAGCCTGGCCTCACGTGCTGCATCTGCAGGGAGGGATACAAGTTCCA
GCCCACAAAGGTCCTGGGCATTTATACCTTCACGAAGCGGGTAGCCTTGGAGGAGATGGAGAATAAGCCCCGGAA
ACAGCAGGGCTACAGCACCGTGTCCCACTTCAACATTGTGCACTACGACTGCCATCTGGCTGCCGTGAGGTTGGC
TCGAGGCCGGGAAGAGTGGGAGAGTGCCGCCCTGCAGAATGCCAACACCAAGTGCAACGGGCTCCTTCCGGTCTG
GGGACCTCATGTCCCTGAATCAGCTTTTGCCACTTGCTTGGCAAGACACAACACTTACCTCCAGGAATGTACAGG
CCAGCGGGAGCCACGTATCAGCTCAACATCCATGACATCAAACCTGCTCTTCCTGCGCTTCGCCATGGAGCAGTC
GTTACGCGCAGACACTGGCGGGGGCGGCCGGGAGAGCAACATCCACCTGATCCCGTACATCATTCACACTGTGCT
TTACGTCCTGAACACAACCCGAGCAACTTCCCGAGAAGAGAAGAACCTCCAAGGCTTTCTGGAACAGCCCAAGGA
GAAGTGGGTGGAGAGTGCCTTTGAAGTGGACGGGCCCTACTATTTACAGTCTTGGCCCTTACATCCTGCCCCC
TGAGCAGTGGAGAGCCACACGTGTGGAATCTTGCGGAGGCTGTTGGTGACCTCGCAGGCTCGGGCAGTGGCTCC
AGGTGGAGCCACCAGGCTGACAGATAAGGCAGTGAAGGACTATTCGCTTACCGTTCTTCCCTTCTCTTTTGGGC
CCTCGTCGATCTCATTTACAACATGTTAAGAAGGTGCCTACCAGTAACACAGAGGGAGGCTGGTCCTGCTCTCT
CGCTGAGTACATCCGCCACAACGACATGCCCATCTACGAAGCTGCCGACAAAGCCCTGAAAACCTTCCAGGAGGA
GTTTCATGCCAGTGGAGACCTTCTCAGAGTTCCTCGATGTGGCCGGTCTTTTATCAGAAATCACCGATCCAGAGAG
CTTCCTGAAGGACCTGTTGAACTCAGTCCCTGACCACCACACAGCAGCTGCGGCGGCGAAGACGAAGCTGGCTT
GCCTTCCACCCTCTGTTCTCCCTCCTTGTGCATTAAGTTCCTCCGCGGGATGCTGCATTGTTACCCCGCCCTCC
CCTCTCTCATTTTTCTTGGTGTGGCTTGGGGTTTTAGGCTTCCTGTTTTATCTCGTGTGTGTGGTGCACCAGCT
ATGAGGTTGTCTGTAAACCAAGCCATCAAAGGGCCTGTACATACCTAGGAGCCATGAGTTGTCCCGGCCAGCTTC
ATACTTGAGTGTGCACATCTTGAGAAATAAACAAGTGACTTAACACAAAAAAAAAAAAAAAAAAAA

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FIGURE 942A

CGAAGGACCTGAAGGAAAGTGGAAGTCCAAAGTTTAAAGATGCCAGAGATGCATTTTAAAGACTCCAAAGATATC
CATGCCAGATATTGACCTGAATCTCACAGGTCCAAAAATAAAAGGAGATGTGGATGTTACAGGCCCTAAGGTAGA
GGGAGATCTGAAAGGTCCTGAAGTTGACCTCAAAGGCCCCAAAGTGAGACATTGATGTCCCAGATGTTAATGTTCA
GGGTCCAGACTGGCACCTGAAGATGCCCAAGATGAAAATGCCTAAGTTTCAAGTATGCCTGGCTTCAAAGGAGAGGG
CCCAGATGGTGGATGTGAAGCTGCCCATAGGCTGACATTGATGTCTCAGGACCAAAGTGAGACATTGAAGGCCCTG
ATGTTAACATTGAAGGACCAGAGGGAAAGTTGAAAGGGCCTAAGTTCAAGATGCCAGAGATGAATATCAAAGCCC
CCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAGTGAAGGGTGATGTGGATGTTTCCCTTCC
TAAAGTGGAAGGTGACCTCAAGGGCCCAGAAGTTGACATCAAGGGCCCAAAGTGAGACATTGACGCACCTGATGT
TGATGTTTCATGGCCCAGACTGGCACCTAAAGATGCCCAAGATGAAAATGCCCAAGTTTCAAGTATGCCTGGCTTCAA
AGCAGAGGGCCCTGAAGCTGGAATGTGAACCTGCCCAAGGCTGACGTTGATGTCTCAGGCCCAAAGTGATATT
AATGCCCCAGATGTGGGTGTTCAAGGCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAGTTTCAAGC
ATGCTTGGCTTCAAAGGAGAGGGCCCAGATGGGGATGTGAAGCTGCCCAAGGCTGACATTGATGTCTCAGGACCC
AAAGTGAGACATTGAAGGCCCTGATGTTAACATTGAAGGACCAGAGGGAAAGTTGAAAGGGCCTAAGTTCAAGATG
CCAGAGATGAATATCAAAGCCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAG
GGTGATGTGGATGTTTCCCTTCCCTAAAGTGGAAGGTGACCTCAAGGGCCCAGAAGTTGACATCAAGGGCCCAAAA
GTGGACATTGACGCACCTGATGTTGATGTTTCATGGCCCAGACTGGCACCTAAAGATGCCCAAGATAAAAATGCC
AAGATCAGCATGCCTGGCTTCAAAGGAGAAGGTCCAGATGTGGACGTGAACCTGCCCAAGGCTGACATTGATGTC
TCAGGACCGAAAGTGATGTTGAATGTCCCGATGTGAATATCGAAGGACCTGAAGGAAAGTGGAAGTCCAAAG
TTTAAAGATGCCAGAGATGCATTTTAAAGACTCCAAAGATATCCATGCCAGATATTGACCTGAATCTCACAGGTCCA
AAAATAAAGGAGATGTGGATGTTACAGGCCCTAAGGTAGAGGGAGATCTGAAAGGTCCTGAAGTTGACCTCAAA
GGCCCCAAAGTGAGACATTGATGTCCCAGATGTTAATGTTTCAAGGTCCAGACTGGCACCTGAAGATGCCCAAGATG
AAAATGCCCAAGTTTCAAGTATGCCTGGCTTCAAAGCAGAGGGCCCTGAAGTGATGTGAACCTGCCCAAGGCTGAC
GTTGATGTCTCAGGCCCAAAGTGAGCGTTGAAGGCCCTGATGTTAACATTGAAGGACCAGAGGGAAAGTTGAAA
GGGCCCAAGTTCAAGATGCCAGAGATGAATATCAAAGCCCCAAGATCCCCATGCCTGACTTTGATTTGCATCTG
AAAGGTCCCAAGGTGAAGGGCGATGTGGATATTTCTCTGCCCAAGTGGAAGGTGACCTCAAGGGCCCTGAAGTT
GACATCAGGGGTCCCAAAGTGAGACATTGATGTCCCGATGTGGGCGTTCAAGGCCAGACTGGCACCTAAAAATG
CCCAAAGTGAAAATGCCCAAATTCAGCATGCCTGGCTTCAAAGGAGAGGGCCCAGATGTGGATGTGAACCTGCC
AAGGCTGACCTTGATGTCTCAGGACCCAAAGTGAGACATTGATGTTCCAGATGTGAATATCGAAGGCCAGAGGGA
AAGTTGAAAGGTCCCAAATTCAAAATGCCTGAGATGAACATCAAAGCCCCAAGATCTCCATGCCTGACATTGAT
CTTAACCTGAAAGGTCCCAAAGTGAAAGGTGACATGGATGTGTCTCTGCCAAAAGTGGAAGGTGACATGAAAGTT
CCTGACGTGGATATTAAAGGCCCCAAAGTGAGATATTAATGCCCCAGATGTGGATGTTCAAGGCCAGACTGGCAC
CTGAAGATGCCTAAAATAAAAATGCCCAAGATCAGCATGCCTGGCTTCAAAGGAGAAGGTCCAGAAGTGAGCGTG
AACCTGCCCAAGGCTGACCTTGACGTCTCAGGACCCAAAGTGAGCGTTGATGTTCCAGATGTGAATATTGAAGGT
CCAGATGCGAACTGAAGGGCCCTAAATTCAGATGCCAGAGATGAACATCAAAGCCCCAAGATCTCCATGCCT
GACTTTGATTTGCATCTGAAAGGCCCTAAGGTGAAAGGAGATGTGGATGTTTCTCTGCCTAAGATGGAAGGTGAT
CTAAAGGGTCCTGAAGTTGACATCAAGGGCCCCAAAGTGAGACATTAATGCTCCAGATGTGGATGTTCAAGGCCCA
GACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAGTTTCAAGTATGCCTGGCTTCAAAGGAGAGGGCCCAGAT
GTGGATGTGAACCTGCCCAAGGCTGACCTTGATGTCTCAGGACCCAAAGTGAGACATTGATGTTTCTGATGTGGAT
ATCCGAAGGTCCAGAAGGGAACTGAAAGGTCCCAAATTCAGATGCCTGAGATGAGCATCAAAGCCCCAAGAT
CTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAAGGGCGATGTGGATGTTACCCTTCTTAAAGT
GGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGAGACATCAACACCCCTGATGTGGATGT
TCATGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAATTCAGCATGCCTGGCTTCAAAGGAGA
AGGTCCAGATGTGGATGTGAACCTGCCCAAGGCTGACATTGATGTCTCAGGACCCAAAGTGAGCGTTGATGTTCC
TGATGTGAATATCGAAGGTCCAGATGCGAACTAAAGGGCCCCAAGTTCAAGATGCCTGAGATGAGCATCAAAGC
CCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAAGGGCGATGTGGATGTTACCCT
TCCTAAAGTGGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGAGACATCAACACCCCTGA
TGTGGATGTTTCATGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAATTCAGCATGCCTGGCTT
CAAAGGAGAAGGTCCAGATGTGGATGTGAGCCTGCCCAAGGCCGACATCGATGTCTCGGGACCCAAAGGTGAGCGT

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FIGURE 942B

TGATATTCCAGATGTGAATATCGAAGGTCCAGACGCAAACTGAAGGGCCCCAAGTTCAAGATGCCTGAAATAAA
TATCAAAGCTCCCAAGATCTCCATACCTGATGTTGACCTGGATTTGAAAGGACCCAAAGTAAAAGGAGATTTTGA
TGTGTCTGTCCCTAAGGTTGAAGGGACTTTGAAAGGCCCAGAAGTAGATCTTAAAGGTCCACGTCTGGATTTTGA
AGGCCCTGATGCCAACTCAGTGGCCCATCTTTGAAGATGCCATCGCTGGAGATATCTGCTCCTAAAGTAACTGC
TCCTGATGTTGATTTGCATCTCAAGGCACCAAAAATTGGATTTTTCAGGTCCGAAGTTAGAAGGTGGTGAAGTGGA
CCTCAAGGGACCCAAAGTTGAAGCTCCAAGCTTAGATGTACACATGGACAGCCAGATATTAACATCGAAGGGCC
AGATGTTAAATCCCCAAATTTAAGAAACCCAGTTTGGATTTGGGGCAAAAAGCCCCAAAGCTGACATCAAGTC
ACCTTCACTGGATGTCACTGTTCTGAGGCAGAGCTGAACCTTGAGACTCCTGAAATTAGTGTGGTGGCAAGGG
CAAGAAAAGTAAGTTTAAATGCCTAAATTCATATGAGTGGTCTTAAGATTAAGGCCAAAAAACAGGGATTG
ACCTGAATGTTCTGGGGGTGAAATTGATGCCAGCCTCAAGGCTCCGGATGTAGATGTCAACATCGCAGGGCCGG
ATGCTGCACTCAAAGTCGACGTGAAATCGCCAAAACCAAGAAAACGATGTTTGGAAAAATGTACTTCCCAGATG
TAGAGTTTGACATTAAATCACCTAAATTTAAAGCTGAGGCCCTCTCCCTAGCCCCAACTGGAGGGTGAAGTCC
AGGCACCTGATCTGGAACCTTCTTTGCCAGCGATTACGTCGAAGGTCTTGACATCAAGGCGAAGGCTCCCAAGG
TCAAGATGCCAGATGTGGACATCTCAGTGCCAAAATAGAGGGTGACCTGAAAGGCCCCAAAGTGCAGGCAAACT
TGGGTGCACCTGACATCAACATCGAAGGCCTAGATGTCTAAAGTCAAAACACCGTCTTCGGCATTCTGCCCCCTC
AAGTCTCCATCCCTGATGTGAATGTAACTTGAAAGGACCAAGATAAAGGGTGATGTCCCCAGCGTGGGACTGG
AAGGACCAGATGTAGATCTGCAAGGTCCAGAAGCAAAAATTAAGTTCCCAAGTTTTCCATGCCCAAGATCGGCA
TCCCAGGTGTGAAAAATGGAGGGTGGGGGAGCCGAGGTCCATGCCAGCTACCCTCTCTTGAAGGAGACTTGAGAG
GACCAGATGTTAAGCTCGAAGGGCCCGATGTTTCTCTAAAGGGGCCAGGAGTAGACTTGCCTTCAGTGAACCTCT
CTATGCCAAAAGTCTCTGGGCCTGACCTTGATCTGAACTTGAAAGGACCAAGTTTGAAGGGAGACCTGGATGCAT
CTGTTCCAGCATGAAGGTGCATGCTCCAGGGCTCAACCTCAGTGGTGTGGTGGCAAAATGCAGGTGGGAGGAG
ACGGTGTGAAAGTGCCAGGGATCGATGCCACAACAAAGCTTAACGTTGGGGCACCAGATGTGACACTGAGGGGAC
CAAGCCTGCAGGGAGATCTGGCTGTCTCTGGTGACATCAAATGCCCTAAAGTATCCGTAGGAGCTCCTGATCTAA
GCTTGGAGGCATCCGAAGGCAGCATTAAACTTCCCAAATGAAGCTGCCCAATTTGGCATCTCTACTCCGGGGT
CCGACTTGCACGTCAATGCCAAGGGGCCACAGGTTTCTGGCGAACTGAAGGGGCCAGGTGTGGATGTGAACCTGA
AAGGGCCTCGGATTTTCAGCACCGAATGTGGACTTTAACTTGGAAGGACCAAAAGTGAAAGGGAGCCTTGGGGCCA
CTGGTGAGATCAAAGGCCCCACTGTGCGGAGGAGGTCTTCCAGGCATTGGTGTTCAGGCCTAGAAGGAAACCTCC
AGATGCCTGGAATTAAGTCTCTGGATGTGATGTGAACCTGCCAGGCGTGAATGTGAAACTCCCCAACTGGGCAGA
TTTCTGGGCCTGAAATCAAAGGTGGTCTGAAAGGTTTCAAGTAGGTTTCCATGGGGCTGCTCCTGATATCAGTG
TGAAGGGGCTGCCTTTAATATGGCATCTCCTGAGTCAGATTTTGGCATCAACTTGAAGGGCCCCAAAATCAAAG
GAGGTGCGGATGTTTTCAGGGGGTGTGAGTGCCCCAGACATCAGCCTTGGTGAAGGGCATTGAGTGTTAAAGGTT
CCGGGGGTGAGTGGAAAGGGACCCCAAGTCTCCTCTGCTCTCAACTTGGACACATCTAAGTTTGTGGGGGCCTTC
ATTTCTCAGGACCAAAAGGTGGAAGGAGGTGTGAAAGGAGGTGAGATTGGACTCCAGGCTCCTGGGCTGAGTGTGT
CTGGGCCTCAAGGTCACTTGGAAGTGGATCTGGAAGTAACATTCCCTAAATGAAGATCCCCAAATTTACCT
TCTCTGGCCGTGAGCTGGTTGGCAGAGAAATGGGGGTGGATGTTCACTTCCCTAAAGCAGAGGCCAGCATCCAAG
CTGGTGCTGGAGACGGCGAGTGGGAAGAGTCTGAAGTCAAAGTGAAGGAGTCCAAGATCAAATGCCCAAGTTTA
ATTTTTCCAAACCTAAAGGGAAAGGTGGTGTCACTGGCTCACCAGAAGCATCAATTTCTGGGTCCAAAGGTGACC
TGAAAAGTTCAAAGGCCAGCCTGGGCTCTCTGGAAGGAGAGGCAGAGGCCGAAGCCTCTTACCAGAAAGGCAAAT
TCTCCTTATTTAAAAGTAAGAAGCCACGGCACCGCTCAAATTCATTAGTGATGAAAGAGAGTTCTCTGGACCTT
CCACCCCGACGGGGACGCTGGAGTTTGAAGGTGGGGAAGTGTCTCTGGAAGGTGGGAAAGTTAAAGGGAAACACG
GGAAGCTGAAATTCGGTACCTTTGGTGGATTGGGGTCAAAGAGCAAAGGTCATTATGAGGTGACTGGGAGCGATG
ATGAGACAGGCAAGTTACAGGGGAGTGGGGTGTCCCTGGCCTCTAAGAAGTCCCGACTGTCTCCTCTTCTAGCA
ATGACAGTGGGAATAAGGTTGGCATCCAGCTTCCCGAGGTGGAGCTGTGAGTTTCCACAAAGAAAGAGTACAGG
CCTTTGTATGTGTGTACATATATATATATAACAAAACATCAGCCTTGGGTGGTGTGTTCTATATAAACTCCA
AAGGGAAACACACCGACTGCCTCAGCAATCATGCAAAGACCTTGCTGGCCCGGTGGCAAGCGCTGAAAAACCGA
CCGCTGTAGGCTCCTGGAACATACAGATAGGTAAAGAGTTCCAAGTTCGTCCAGCCATGTGCAAAAGTCAACA
GTATTTGCCTTAAGATTTTCATATATATATATTTTTTTTGATTGACTGCTGAGAGCTCCTGTTTACTAAGCAAGCT
TTTGTGTTTATTATCCTCATTTTTTACTGAACATTGTTAGTTTTGGGGTAATGGAAACCCACTTTTTTCATTGTAAT

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FIGURE 942C

GACTTTGGGGGCTTTTGTTAGTAAGGGTGGGTGGGGTGATGGGTTGCAGACGGAGGTCAGGTCTTCCTCTTTCCT
GAGACTGGATCTGTTCAAACAGCAAACGCCCCACAGATGGCCCAGAGGTGGTGGTAGTCAGGGTGTGTGGGTGTTT
TTAGGGTTCTTTAGTGTTGTTTCTTTCACCCAGGGGTGGTGGTCCCAGCCAGTTTGGTGCTGACGGTGAGAGGAA
ATTAGAATCTGTTTGCAAATTGTCCAACCCACCCCCTCAACATGAGGGGCTTCCATTTTCTGTGTTTTGTAAGGG
AACTGTTTCCTTCATGCCGCCATGTTCTGATATTAGTTCTGATTTCTTTTTAACAAATGTTATCATGATTAAGA
AAATTTCCAGCACTTTAATGGCCAATTAACTGAGAATGTAAGAAAATTGATGCTGTACAAGGCAAATAAAGCTGT
TTATTAACTCCGAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCA

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FIGURE 943

MPKVKMPKFSMPGFKGEGPDGDVVKLPKADIDVSGPKVDIEGPDVNIIEGPEGKLGPKFKMPKEMNIKAPKISMPDI
DLNLKGPKVKGDVDVSLPKVEGDLKGPEVDIKGPKVDIDAPDVDVHGPDWHLKMPKIKMPKISMPGFKGEGPDVD
VNLPKADIDVSGPKVDVECPDVNIIEGPEGKWKSPKFKMPKEMHFKTPKISMPDIDLNLTGPKIKGDVDVTGPKVEG
DLKGPEVDLKGPKVDIDVPDVNVQGPDWHLKMPKMKMPKFSMPGFKAEGPEVDVNLPKADVDSGPKVDVEGPDV
NIEGPEGKLGPKFKMPKEMNIKAPKIPMPDFDLHLKGPKVKGDVDISLPKVEGDLKGPEVDIRGPKVDIDVPDVG
VQGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADLDVSGPKVDIDVPDVNIIEGPEGKLGPKFKMPKEMNIK
APKISMPDIDLNLKGPKVKGDMDVSLPKVEGDMKVPDVIDKGPKVDINAPDVDVQGPDWHLKMPKIKMPKISMPG
FKGEGPEVDVNLPKADLDVSGPKVDVDVPDVNIIEGPDALKGPKFKMPKEMNIKAPKISMPDFDLHLKGPKVKGDV
DVSPLKMEGDLKGPEVDIKGPKVDINAPDVDVQGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADLDVSGP
KVDIDVPDVIDRRSRRETTERSQIQDAEMSIQAPKISMPDIDLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPK
VDINTPDVDVHGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADIDVSGPKVDVDVPDVNIIEGPDALKGPK
FKMPKEMSIKAPKISMPDIDLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPKVDINTPDVDVHGPDWHLKMPK
KMPKFSMPGFKGEGPDVDVSLPKADIDVSGPKVDVDIPDVNIIEGPDALKGPKFKMPKEMINIKAPKISIPDVDLDL
KGPKVKGDFDVSVPKVEGTLKGPEVDLKGPRLDVEGPDALSGPSLKMPKSLKISAPKVTAPDVDLHLKAPKIGFS
GPKLEGGEVDLKGPKVEAPSLDVHMDSPDINIEGPDVKIPKFKPKFGFGAKSPKADIKSPSLDVTVPKAEELNLE
TPEISVGGGKSKSKFKMPKIHMSGPKIKAKKTGIDLNVPGGEIDASLKAPDVDVNIAGPDAAALKVDVKSPKTKKT
MFGKMYFPDVEFDIKSPKFKAEAPLPSPKLEGELQAPDLELSLPAIHVEGLDIKAKAPVKMPDVIDSVPKIEGD
LKGPKVQANLGAPDINIEGLDAKVKTSPFGISAPQVSIQPDVNVNLKGPKIKGDVPSVGLGEPDLDLQGPPEAKIKF
PKFSMPKIGIPGVKMEGGGAEVHAQLPSLEGDLRGPDKLEGPDVSLKGPVLDLPSVNLKMPKVSMPDLDLNLKG
PSLKGDLASVPSMKVHAPGLNLSGVGGKMVQGGDGVKVPIDATTKLNVGAPDVTLRGPSLQGD LAVSGDIKCP
KVSVPDLSLEASEGSIKLPKMKLPQFGISTPGSDLHVNAKGPQVSGELKGPVVDVNLKGPRIKAPNVDFNLEG
PKVKGSLGATGEIKGPTVGGGLPGIGVQGLEGNLQMPGIKSSGCDVNLPGVNVKLPTGQISGPEIKGGLKGSEVG
FHGAAPDISVKGPAFNMA SPESDFGINLKGPKIKGGADVSGGVSAPDISLGEGLSVKSGSGGEWKGPQVSSALNL
DTSKFAGGLHFSGPKEGGVKGQIGLQAPGLSVSGPQGHLESGSGKVTFFPKMKIPKFTTSGRELVGREMGVDVH
FPKAEASIQAGAGDGEWESEVKKLKS KIKMPKFNFSKPKGKGGVTGSPEASISGSKGDLKSSKASLSLEGEAE
AEASSPKGKFSLFKSKKPRHRSNSFSDEREFSGPSTPTGTLEFEGGEVSLEGGKVKGKHGKLFKFTFGGLGSKSK
GHYEVTGSDDDETGLQSGSVSLASKKSRLSSSSSNDSGNKVGIQLPEVELSVSTKKE

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FIGURE 944A

CAGGACACGAGGAACTGTTAATGACTTGGGCTTTGGAAGTAGCTGTTGTAATGAAGAAGTCCGAAACATATGCA
CCTTTATTCTGTCTTCCGTCTTTCCATAAATTTTGCAAAGGCCCTTTAGCCGACACTCTCGTTGAAGATGTGAAT
ATCTGTCTGCAGGCATGCAGCAGTCTACATGCTCTATCCTCTTCCCTTGCCAGATGATCTTTTACAGAGATGTGTT
GATGTTTGCCGTGTCCAAC TAGTGACCCGTGGAAC TTGTATTGCAACAAGCATTGGAACACTGTTGAAATCAATT
CCTTTAGGTGTTTTCTTAAGCGATAACAATCACACAGAAATTCAAGAAATTTCTTTAGCATTAAAGAAGTCACATG
AGTAAAGCACCAAGTAATACATTCCACCCCCAAGATTTCTCTGATGTTATTAGTTTTATTTTGTATGGGAACCTCT
CATAGAACAGGGAAGGACAATTGGTTGGAAAGACTGTTCTATAGCTGCCAGAGACTGGATAAGCGTGACCAGTCA
ACAATTCCACGCAATCTCCTGAAGACAGATGCTATCCTTTGGCAGTGGGCCATATGGGAAGCTGCACAATTCCT
GTTCTTTCTAAGCTGAGAACCCCACTGGGCAGAGCTCAAGACACCTTCCAGACAATTGAAGGTATCATTTCGAAGT
CTCGCAGGTACACATTAAACCCTGATCAGGATGTTAGTCAGTGGACAACCTGCAGACAGTGATGAAGGCCATGGT
AACAACCAACTTAGACTTGTTCTTCTTCTGTCAGTATCTGGAAAATCTGGAGAAATTAATGTATAATGCATACGAG
GGATGTGCTAATGCCTTAACCTCACCTCCCAAGGTCATTAGAACTTTTTTGTATACCAATCGCCAAACTTGTGAG
GACTGGCTAACGCGGATTGCACTCTCCATCATGAGGGTAGGATTGTTGGCAGGCCAGCCTGCAGTGACAGTGAGA
CATGGCTTTGACTTGCTTACAGAGATGAAAAACAACAGCCTATCTCAGGGGAATGAATTGGAAGTAAGCATTATG
ATGGTGGTAGAAGCACTATGTGAACCTTCAATTGTCCTGAAGCTATACAGGGAATTGCTGTCTGGTCATCATCTATT
GTTGGAACATCTTCTGTGGATTAACTCAGTGGCTCAACAGGCTGAAGGGAGGTTTGAAAAGGCCCTCTGTGGAG
TACCAGGAACACCTGTGTGCCATGACAGGTGTTGATTGCTGCATCTCCAGCTTTGACAAATCGGTGCTCACCTTA
GCCAGTGCTGGGTGTAAGAGTGCCAGCCTGAAACATTGTCTGAATGGTGAATCCAGAAAAAGTGTGCTGTCCAAA
CCGACTGACTCTTCCCTGAGGTTATAAATTATTTAGGAAACAAAGCATGTGAGTGCTACATCTCAACTGCCGAT
TGGGCTGCTGTGCAGGAATGGCAGAACGCTATCCATGACTTGAAAAAGAGTACCAGTAGCACTTCCCTCAACCTG
AAAGCTGACTTCAACTATATAAAATCATTAAAGCAGCTTTGAGTCTGGAAAATTTGTGCAATGTACCGAGCAATTA
GAATTGTTACCAGGAGAAAAATATCAATCTACTTGCTGGAGGATCAAAAGAAAAAATAGACATGAAAAAACTGCTT
CGTAACATGTGAAGTCCAGATCCAAGGGAACCTCAGAAATCCATTGAAGTTCCATTGTTAAGAAGTTCTGTTTGT
TTGGCAACTGCTTTAAACCCGATAGAACAAGATCAGAAGTGGCAGTCTATAACTGAAAATGTGGTAAAGTACTTG
AAGCAAACATCCCGCATCGCTATTGGACCTCTGAGACTTTCTACTTTAACAGTTTCACAGTCTTTGCCAGTTCTA
AGTACCTTGACAGCTGTATTGCTCGTCTGCTTTGGAGACCACAGTTTCTAACAGACTTTCAACAGAGGACTGTCTT
ATTCCACTCTTCGGCGAAGCTTTACGTTTATGTAAACAGCATGACGTGAGGCCGTGGATGCAGGCATTAAGGTAT
ACTGTGTACCAGAATCAGTTGTTGGAGAAAAATTAAGGTATGATCTCGTGAATCTTGAGAGAACTGAATGACG
AATGAAACTATTGTTCTGTTTACACAGAAGAAAACTGAGGTTGGCACTCATCATGAGCCCCTGTTCTCATTCT
GCAATGGTGAAGCTCTCTATTGTCTGACCCACAGTTCTGTCCCATGACCAGGGCCAGCTCACCAAGGAGCT
GCAGCAGCATGTAAAGTCAGTGACATGCCCATGCGAGTACCTGAGGAAGGTTATCAATACTCTGGCTGACCATCA
TCATCGTGGGACTGACTTTGGTGGAAGTCTTGGTTACATGTCATTATTGCGTTTCCGACAAGTTATAAAGTTGT
CATTACCTCTGGATAGTTTACCTTTGGGTGCTCTCCTGAAGACTATCTTCTGGTCTCGAAATGGACATGATGG
ATCCACGGATGTACAGCAGAGAGCCTGGAGGTCCAACCGCCGTAGACAGGAAGGGCTGAGGTCCATTTGTATGCA
CACAAAGAAAAGAGTTTCTTCTTTTCGAGGAAATAAAATTGGCCCTGAAAGACGTCACTACTCTACGGAGACATGT
GGAAACAAAAGTTAGAGCTAAAATCCGTAAGAGGAAGGTGACAACGAAAATCAACCATCATGACAAAATCAATGG
AAAGAGGAAGACCGCCAGAAAACAGAAAATGTTTCAACGTGCGCAAGAGTTGCGGCGGCGAGCAGAGGACTACCA
CAAATGCAAAATCCCCCTTCTGCAAGAAAAGGCTCTTTGCAACTGGGTGAGAATGGCGGCAGCGGAGCATCGTCAT
TCTTCAGGATTGCCCTACTGGCCCTACCTCACAGCTGAAACTTTAAAAAACAGGATGGGCCACCAGCCACCTCCT
CCAACCTCAACAACATTCTATAACTGATAACTCCCTGAGCCTCAAGACACCTCCCGAGTGTCTGCTCACTCCCCTT
CCACCCTCAGCGGATGATAATCTCAAGACACCTCCCGAGTGTGTGCTCACTCCCCTTCCACCCTCAGCGGATGAT
AATCTCAAGACACCTCCCGAGTGTGTGCTCACTCCCCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTCCT
GAGTGTCTCCTCACTCCCCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTCCCGAGTGTCTGCTCACTCCC
CTTCCACCCTCAGCTCTACCCTCAGCTCCACCCTCAGCAGATGATAATCTCAAGACACGTGCCGAGTGTCTGCTC
CATCCCCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGTCACTCCCCTTCCACCCTCA
GCTCCACCCTCAGCAGATGATAATCTCAAGACACCTGCCGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCGGAT
GATAATCTCAAGACACCTTCCGAGCGTCAGTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGATAAT
ATCAAGACACCTGCCGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAG

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FIGURE 944B

CGTCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTGCCGAGCGTCTG
CGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCACCC
TCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTGCCGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCG
GATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGAT
AACATCAAGACACCTGCCCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCC
TTCCACCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGATACCTGCTGAGCGTCTGCGGATTCCGCTTCCAC
CATCAGCCGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAG
CAGATGATAATATCAAGACACCTGCCGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGA
CACCTTCCGAGCATCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTG
CCGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTC
CCCTTCCACCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTGCCGAGCGTCTGCGGGGGCCGCTT
CACCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCACACTCAGCTCCACCCT
CAGCAGATGATAATATCAAGACACCTGCCGAGCGTCTGCGGGGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCG
GATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGAT
AATATCAAGACACCTGCTGAGCGTCTGCGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCC
GAGCGTCAGCTCACTCCCCTTCCACCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTGCCGAGCGT
CTGCGGGGGCCGCTTCCACCCTCAGCGGATGATAATCTCAAGACACCTTCCGAGCGTCAGCTCACTCCCCTTCCA
CCCTCAGCTCCACCCTCAGCAGATGATAATATCAAGACACCTGCCGAGCGTCTGCGGGGGCCGCTTCCACCCTCA
GCCGATGATAATCTCAAGACACCTCCCTTAGCTACTCAGGAGGCTGAGGCAGAAAAACCACGCAAACCCAAGAGG
CAGAGGGCGGCTGAGATGGAACCACCTCCCGAACCCAAGAGGCGGAGGGTCGGTGACGTGGAACCGTCACGCAAA
CCCAAGAGGCGGAGGGCCGCTGACGTGGAACCATCATCACCCGAACCCAAGAGGCGGAGGGTCGGTGATGTGGAA
CCGTCACGCAAACCCAAGAGGCGGAGGGCCGCTGACGTGGAACCATCATCACCCGAACCCAAGAGGCGGAGGGTC
GGTGACGTGGAACCGTCACGCAAACCCAAGAGGCGGAGGGCCGCTGACGTGGAACCATCATTACCCGAACCCAAG
AGGCGGAGGTTGAGCTGAGAAGAGGCCAGTGCACTCAAGCCTGAGCAATAAGAATAAAACCGAGTAGAACAAAAT
AAAAAATTCAAAAAACAAAACAAAACCCACACTCCAAAACTAACAAAGAATAAATAAATAATATAAAAAAT

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FIGURE 945

GTGCGGTTGGGAACGCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCA
ATGAGCTGAAGGAGAAAGGCAACAAGGCCCTGAGCGTGGGTAAACATCGATGATGCCTTACAGTGCTACTCCGAAG
CTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACC
AGAAGGCTTATGAGGATGGCTGCAAGACTGTGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAG
CAGCTCTAGAGTTCTTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCCAAATA
ACCTCAACTGAAAGAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCCCTTTCAACA
TGCCTAATCTGTATCAGAAGTTGGAGAGTGATCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGC
TGATAGAGCAGCTACGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCA
GCGTCCTCCTTGGGGTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTC
CCAAAAGGAGACCAAGCCAGAGCCAATGGAAGAAGATCTTCAGAGAATAAGAAGCAGGCACTGAAAGAAAAAG
AGCTGGGGAACGATGCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGG
ACCCCACTAACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGG
AGCTTTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTC
GAATTGGCAACTCCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGC
ACCGAACCCAGATGTGCTCAAGAAATGCCAGCAGGCAGAGAAAATCCTGAAGGAGCAAGAGCGGCTGGCCTACA
TAAACCCCGACCTGGCTTTGGAGGAGAAGAACAAGGCAACGAGTGTTTTTCAGAAAGGGGACTATCCCCAGGCCA
TGAAGCATTATACAGAAGCCATCAAAAGGAACCCGAAAGATGCCAAATTATACAGCAATCGAGCTGCCTGCTACA
CCAAACTCCTGGAGTTCCAGCTGGCACTCAAGGACTGTGAGGAATGTATCCAGCTGGAGCCGACCTTCATCAAGG
GTTATACACGAAAGCCGCTGCGCTGGAAGCGATGAAGGACTACACCAAAGCCATGGATGTGTACCAGAAGGCGC
TAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGACGGCTACCAGCGCTGTATGATGGCGCAGTACAACCGGCACG
ACAGCCCCGAAGATGTGAAGCGACGAGCCATGGCCGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGC
GCCTTATCCTGGAACAGATGCAGAAGGACCCCCAGGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGA
AGATCCAGAAGCTGATGGATGTGGGTCTGATTGCAATTCGGTGATGACTTGTTTCATCCCCCTTCCCTTCGCCCT
CATGTGGAAGAGGAGCTGGGACCGCGGCGAGCAGCACGGAGCGGAAGGGAGAGCAGGGGAGAGAAGGCCTCATC
TCTCTATATTTATACATAACCCCGGGGAAGACACAGAGACTCGTACCTGCGCTGTTTGTGCCGCCGCTGCCTCTG
GGCCCTCCCAGCACACGCATGGTCTCTTACCCTGCGCTCGAGTTCCATGTCTCTTTCCCTGCCCTAGTTGC
TGTCTCGGCTGCTCTCCCATAGTTGGTTTTTTTTTTTATTTGGGGCAGTGGGCATGTTATGGGGAGGGAGGGGGT
TCTTCCAGCCTCAGGTCCCAGCTGTCTCACGTTGTTTATTCTGCGTCCCTTCTCCAATAAAACAAGCCAGTTGG
GCGTGTTATAAC

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FIGURE 946

MEQVNELKEKGNKALSVGNIDDALQCYSEAIKLDPHNHVLYSNRSAAAYAKKGDYQKAYEDGCKTVDLKPDWGKGY
SRKAAALEFLNRFEEAKRTYEGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNLYQKLESDPRTRTLLSDP
TYRELIEQLRNKPSDLGTKLQDPRIMTTLSVLLGVDLGSMDEEEEIATPPPPPPPKKETKPEPMEEDLPENKKQA
LKEKELGNDAYKKKDFDTALKHYDKAKELDPTNMTYITNQAAYFEKGDYNKCRELCEKAIEVGRENREDYRQIA
KAYARIGNSYFKEEKYKDAIHFNKSLAEHRTPDVLKKCQQA EKILKEQERLAYINPD LALEEKNGNECFQKGD
YPQAMKHYTEAIKRNP KDAKLYSNRAACYTKLLEFQLALKDC EECIQLEPTFIKGYTRKAAALEAMKDYTKAMDV
YQKALDLDSSCKEADGYQRCMMAQYNRHDS PEDVKRRAMADFEVQQIMSDPAMRLILEQM QKDPQALSEHLKNP
VIAQKIQKLMDVGLIAIR

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FIGURE 947

CTTGTGAGTCTATAACTCGGAGCCGTTGGGTTCGGTTCCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGGGGTC
TGCTCTGTGTGCCATGGACGGCATTGTCCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTC
TACTTGTGTCTACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAA
GTTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTAC
GGAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTACCAACCTCCTGATGCTGAAGGGGAAAAACCA
GGCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACACTACACCTCGGTGACCCCTGTGCT
GCGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCG
GGCCCAGGCGGCCCTGCAGGCGGTGAACCTCGGTCCAGTCGGGGAACCTGGCCTTGGCTGCCTCGGCGGCGGCCGT
GGACGCAGGGATGGCGATGGCCGGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCCTGTGAC
CCTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGCACAGTGTGAAGATCATCACCTTCACCAAGAACAACCA
GTTCCAGGCCCTGCTGCAGTATGCGGACCCCCGTGAGCGCCAGCACGCCAAGCTGTCGCTGGACGGGCAGAACAT
CTACAACGCCTGCTGCACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAA
GAGCCGTGACTACACAGCCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACCAGACCATGGCCGCGGC
CTTCGCCCTCTCCGTATGCAGGAGCTGGTTTCCCTCCCACCTTTGCCATTCTCTCAAGCTGCAGGCCTTTCCGTTCC
GAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCTCGGCGGCGGCGGCAGCTGCGGCGGCAGGTTCGGATCGC
CATCCCGGGCCTGGCGGGGGCAGGAAATTCTGTATTGCTGGTCAGCAACCTCAACCCAGAGAGAGTACACCCCCA
AAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCTGTTCAATAAGAAGGAGAACGC
CCTAGTGCAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAACGGGCACAAGCTGCACGGGAA
GCCCATCCGCATCAGCTCTCGAAGCACCAAGCTGCAGCTGCCCCGCGAGGGCCAGGAGGACCAGGGCCTGAC
CAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGGCTCCAAGAATTCCAGAACATATTCCCGCC
CTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTCAAGGTCTGTTTTCCAGCAA
TGGGGGCGTCGTCAAAGGATTCAAGTCTTCCAGAAGGACCGCAAGATGGCACTGATCCAGATGGGCTCCGTGGA
GGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCACCACCTGCGGGTCTCCTTCTC
CAAGTCCACCATCTAGGGGCACAGGCCCCACGGCCGGGCCCCCTGGCGACAACCTCCATCATTCCAGAGAAAAG
CCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTTAAAGAGAAATCAGTTTACCTGT
TTTTAAAAAATTAAATCTAGTTACCTTGCTCACCTTGCGGTGACAGGGACAGCTCAGGCTCTTGGTGACTGTG
GCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCCTCGGGGCCATGCCTTGGTGGGGCCTGTGTGCGGC
GTGGGGCCTGCAGGTGGGCGCCCCGACCAAGGGGTGGGGGGGTACACCAGAGAGAGGACAGGGGGCCTGGCCGG
CACACCCACCCGGGTGTCTTGGGGACCAAGGGGTGGGGGGGTACACCAGAGAGAGGACAGGGGGCCTGGCCGG
CTCCTGCAGGATCATGCAGCTGGGGCGCGGCGCGCGGCTGCGACACCCCAACCCAGCCCTCTAATCAAGTCA
CGTGATTCTCCCTTACCCCGCCCCCAGGGCCTTCCCTTCTGCCCCCAGGCGGGCTCCCCGTGCTCCAGCTGCG
GAGCTGGTCGACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTGCCTAGCAATATTTCCAGTTGA
CCAAATATTCTAATCTTTTTTCAATTTATATGCAAAAGAAATAGTTTTAAGTAACTTTTTATAGCAAGATGATACA
ATGGTATGAGTGTAATCTAAACTTCCTTGTGGTATTACCTTGATGCTGTTACTTTTATTTTATTCCTTGTAATT
AAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCCGCCAGTGGGTGAGGCACAGGGAGCCCCGGTCC
TATCTTAGAGCCCCCTGAGCTTCAGGGAAGGGGCGGGCGTGTGCGCCGCTCTGGCATCGCTCCGGTTGCCTTACA
CCACGCCTTCACCTGCAGTCGCTAGAAAACCTTGCTCTCAAACTTCAGGGTTTTTTCTTCTTCAAATTTTGGAC
CAAAGTCTCATTCTGTGTTTTTGCTGCTGATGCTGGGACCCGGAAGGCGGGCGCTCCTCCTGTCTTCTCTG
TGCTCTTTCTACCGCCCCCGCTCCTGTCCCGGGGGCTCTCCTAGGATCCCCTTTCCGTAAAAGCGTGTAACAAG
GGTGTAATATTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGGCGGCGCGCGGTTTTTTATGGTGACACA
AATGTATATTTTGCTAACAGCAATTCCAGGCTCAGTATTGTGACCGCGGAGCCACAGGGGACCCACGCACATTC
CGTTGCCTTACCCGATGGCTTGTGACGCGGAGAGAACCGATTAAACCGTTTGAGAACTCCTCCCTTGTCTAGC
CCTGTGTTGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACTTCGAATAAATCTTCTGTATCC
TCGCTCCGTTCCGCCTTAAA

A

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FIGURE 948

MDGIVPDIAVGTKRGSDELFSTCVTNGPFIMSSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKLPIDVTEGEV
ISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYTTSVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAA
LQAVNSVQSGNLALAASAAAVDAGMAMAGQSPVLRRIIVENLFYPVTLDDLHQLFSKFGTVLKIITFTKNNQFQAL
LQYADPVSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLP SGDSQPSLDQTMAAAFGLS
VPNVHGALAPLAIP SAAAAAAAAAGRIAIPGLAGAGNSVLLVSNLNPERVTPQSLFILFGVYGDVQRVKILFNKKE
NALVQMADGNQAQLAMSHLNHGKLGKPIRITLSKHQNVQLPREGQEDQGLTKDYGNSPLHRFKKPGSKNFQNI
PPSATLHLSNIPPSVSEEDLKVLFSNNGGVVKGFKFQKDRKMALIQMGSVEEAVQALIDLHNHDLGENHHLRVS
FSKSTI

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FIGURE 949A

CGAAGGCTTCATCGAAGTCCTGACCAAGAAGCAGCGCCGCTGCTGGAGGAAGAGAGAAGAAAGAAGGAGCAGGC
CGTGCAGGTGCCTGTCAAAGGTGAGGGCCTTTCTCCCGTATTCTCTCTCGATTGCAAAAAAGCAGAACAACCTT
ATGTCTGGAGCAAGGTGACGTGACCGTGCCTGGCAGCAGCCTGGGCACTGAGATCTGGGAGAGCAGCAGCCAGGC
TCTCCCTGTGCAGGCCCCAGCCAACGACTCCTGGAGGAAAGCTGTCACTGCCTTCAGCAGCACCGAGACTGGCTC
TGCGGAGCAGGGTTTTTAAGAGCAGCCAGGGAGATAGTGGCGTTGACTTGAGTGCCGAGTCTCGGGAGTCGTCTGC
GACCTCCTCGCAGCGCAGCTCCCCATATGGGACTCTGAAGCCAGAGGAGATGAGCGGGCCCGCCTGGCGGAACC
CAAGGCCGACAGCCACAAGGAGCAGGCTCCAAAGCCATCTGAGCAGAAGGATTGAGAACAAGGCTCTGGACAGAG
CAAGGAGCACAGACCAGGACCCATCGGCAACGAGCGTTCTCTGAAAAACAGAAAGGGCTCGGAGGGGGCCGAGCG
GCTGCAAGGGGCTGTCTGCCGCTGTAAACGGGGTGGAGATTACGTGGACTCCGTGCTGCCTGTGCCACCCAT
TGAATTTGGAGTCAGTCCAAAAGACTCCGATTTACGTTGCCACCTGGTTCTGCCTCTGGTCTTACTGGGAGTCC
AGTTGTTAACTTCAGGATGCCTTGCCAGTAATGCAGGGTTAACACAGAGTATCCCCATCTGCGGCGGGACCA
TCACATCCAGAGGGCCATCGGTCTCTCCCCAATGTCTTCCCCACCGCCGACCTTACTCTGAAGATGGAGTCTGC
GCGCAAGGCTTGGGAAAACTCCCCAGTTTGCCGGAGCAGAGCTCTCCAGGCGGCGCTGGCTCAGGCATCCAGCC
TCCATCTCTGTGGGTGCCTCCAGCGGGGTCAACTACAGCTCCTTCGGTGGAGTGTCCATGCCACCCATGCCTGT
GGCCTCTGTAGACCTTCTGCTTCTATGCCAGGCAGCCACCTCCCGCCCTGTACCTGGATGGCCATGTGTTTGC
AAGTCAGCCCCGGCTGGTTCTCAAACGATACCTCAGCAGCAGAGTTACCAACAGGCCCGCCGCTGCCAGCAGAT
CCCCATCTCCCTTCACACATCTCTGCAGGCACAAGCTCAGCTTGACTGAGGGGTGGGCTTCTGTGTCCAGTC
CCAGGAGATCTTCAGCTCCTTGACAGCCCTTCAGATCTCAGGTGTACATGCACCCAGCCTGTACCGCCAGCAC
CATGATCCTCTCTGGGGGCACAGCCTTGAAGCCTCCATACTCGGCGTTCCAGGCATGCAGCCCTTGAGATGGT
GAAGCCGAGTCTGGCTCACCTTACCAGCCCATGAGCGGGAACCAAGCCCTGGTCTACGAGGGCCAGCTCAGCCA
GGCTGCTGGCCTGGGTGCCTCCCAGATGTTGGACTCCCAGCTCCACAGCTGACCATGCCACTGCCTCGGTACGG
CTCCGGGCAGCAGCCACTGATCCTGCCCCAGTCTATTACGCTGCCACCTGGGCAGAGCCTCTCCGTTGGGGCCCC
CCGAAGGATTCTCCGCCCCGGGTCCCAGCCGCCAGTCTTGAACACCAGCAGAGAGCCCTCTCAGATGGAGATGAA
AGGCTTCCACTTTGCCGACAGTAAACAGAATGTCCCTTCAGGAGGCCCGTGCCATCGCCACAGACCTACAGGCC
TAGCTCTGCTAGCCCCAGTGGAAGCCCTCTGGATCAGCAGTTAACATGGGCTCTGTGCAGGGACACTACGTGCA
ACAGGCAAAACAACGAGTGATGAGAAACCCAGCCTGGGAGCCGTGAAGCTGCAGGAGGCCCCCTCGGCTGCCTC
CCAGATGAAGCGAACCGGAGCGATCAAGCCTCGGGCTGTCAAAGTGGAGGAGAGTAAGGCCTGACAGTGCCTGGC
TGCCACCTCGCCTCTCCCTACTGAGGACGGTGGCGCCATGCGGCCTCGACACAGCCGACACTCGGGAGCCTCACC
AGATCCACCGTCCAAATGCGTGGCCAGACTGAGAGACCTCCCTCCTCTCCACTCCCGAAAGCTCCGTTGTCAAC
CAGCTTGACCCGTGGATATATGGCATTGACCCGCTTGCTTTGATACGAAACAAAAAGCAGACGACTCCTTCAT
CCCATCTGCTCCTACCGTGACTGTGGAGTGACGCCCTCTGTGCAGTGCAGATTTGCCCTCCCTGCCTCCTCCCTG
TCCTGCCGCGCAGCCAGGGCGCCTTCTCAGCAGTGCTTCCGGCCAGCCGCCCATCCCTAGGCACAGTGATTTGG
CAGCAGGGTCATTTTACTTTGAGGCTTTTTGTTTTAAATGTAGCCAAGGTTTTTACAAAGGGGAAAGGAAAAGA
AAACAAAACGCAAGCTCCATGTGTATAGCTGAACTTTTATATGTTTCTTGCCAGCCCCCTCCGCTCCCTTCCATC
TCTAGCCTCTGTCTGTTTAGTTTGATACGTCACTGCAGTACCTTAAGAGGTGACTCTTAAGAATGCATCCCCCTC
CTGATTCTCAGCTGGTTACCCCTTGAGGTTATTTGCAAAAAGAAAAGGAGGTTCTTGAGGGCACCGATTGCGAG
CATTCTGGTGCCTGGCTCCCCGCTGGGAAGCAATGGGGTGCTCAGAGCAGCAGGCAGGTTGGGGGAGGGGGGGG
GGTCATAGTTGGGTTCCAGCTCCTGGCTTGATGAGCCAGGGCGCTTACAGGCAGCCCATGAAGTTGATGACAGT
TTTAGCATGAGAATCACACAGGGTCCCTGTCTGGGCTCCTCTAAAGCCAGTGATGTGCTGGGCACCAGAGACA
AATCATGGAGATGGCTGCTGGTGGCTCCCAGGTTGGCCAGATGGGGTGAGCTGACATACCACAGGCCCCATCCCA
GGCCCCGTGGGCTCTGCTTCTGGGGCTCCATACCCTGCCCTGCGGGGGTGCTGTGTTTTTACACATTTCTTTCC
CTGAAGCCTTCTGTAACCTGTCATTTTCTTCTTCTTCTTCCGGAGCCTGCTGCTTTCTCTGGACCTGTCTCCA
CCTCCACACAGCTCATCGTGAACACCCTTGGTGATGGAGGGAGTGAGCCCGTGTGTGGTCCCCAAGTGAGGCC
ACTGGGAGTTTGTCTTTTCTCTCTTTGCTTCACTCCAGCAGCAGACCCAGGTTGTCAGGACAGGAGGGCCTGA
GCTAAGCAGTAGGCATCAGTCTCGTTTGTCTTCAGACGGCGGGGGCAGGTCCAGGGTGAGGCTGGGTGGAGGGCT
GACCAAGGTCCAAAGGGCCTGCGCAGCCTCCGGGAGGGCAGCTTCTCCAGCCAGAGGCTTGTGTGAGCCATCGTG
TGCTGGGCTTGTTTTTAAGTAAGAAACAAGGAAATCACTCCAGATTCTGTCAATCCAAGGAAAGGGAAGGGGACA
GTTTCAGGTTTCTCAGCTGTTCTTAGGGGTCACTGAGCGTCTACCTCCTCCTCCAGAGGAGGCTGGCTCAGAACAC

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FIGURE 949B

CTAGAGGAGGGGGCCGGGGATGCACCCCCACCAGAGGCTGCCTTCAGCGTCTCACGGGTGCAGGACAGCGCTCA
GGCTTGGGCTCTAAGCTCTGTGTCTAGTGTAGAACATGGGGAAGGAGCATCTTAGGAACTGCTGAAGTAACTTCT
TACTGCTCTCACAATTCTAAGGAAGCGGGAGAACGGCCTCCTACCAACAGCGCCCCACCCAGAGCTGCCTGGGAA
AGGGCAGTTTTACTGAAAGGTGCTTTACTGTTACCTGCATCTTTCAGCAGCTCCCCCTCCTGCCCTCACCTGGTC
TTTTCCCTCTTTATCCCAAGCCTTTATGCTTGAGTCCCTTCCCCAGGGGCTGCCCCACCCGACAGTTCCAGGCATT
CCCTACCTGAGCTTCTTGTCTGCTTTTCCTTCTCCCACTGCAGGCGGCTGCTTGTGGGGCCTGGGATGAGCCCTC
TCTGTCCCCACCGGCCCTCCTTGCCAAGCCATTCTGGGTGAGTTCAGGCCTGCGGGAGCCACACATTTCATCTCC
ACCTGGACACTTGAGCCGCATGGCCAGACCCCTCCCACTGATGCGGTGGTGGTGTGATTGTGCAAAAGAAAGC
CTTCTGGATGCTGTTAAGATGTACCCTTCAGGTGAACCTGGTATCAGACCCACAGTACTTGCTGTTTGAGAAAAA
ATAAAAAACAAAAAGGTACCTGTTCTCCAGCCCTTTTCTCTTACCTGGTATTTCTTCTCTTCTCTCCCCACC
CCAAATAAAAAACAAAAACACTAGAAATTTATTTATATGTATTGATGTTGTAGGTCTAGGTGAAAAAAAAGAA
GTAAATGTTTCACTGCTCTATTTATATATAATGTCTGAATTAATTCTGTGCAGGAAAGGCCAGGAAATTGCATGT
GAAGTTCGGTGCAGTACCACCTCTGTGTGACCTGAGCTGCAGTCTCTTCGCTGAGATGCAGGTTTTAAATGAGA
CTTGGGGGGCTGAGGGCAGGCCTCAGGCCTCCCAGCGCCCCAACCCCTCCTTGGTCTAATGAAATGCAGTTCTTA
GTGCAGAGATGTTTTAAGGTGCAATATATCTCTTCTTCTTCCCGTGGTTTTAGAGCCAAGCTCAAGGTAGTAGGAC
GTAGGGTCTTATTTTGTGTTTCAAACCCCCATCCTCAGAGCGCAGATACATGCAGAGGCTTCTGCCAGGATACAC
GGGGCCTTAGTGGGAACAGGTGGAGACCAGCACTTCCCTTTCTGCTGCTGAGGTAGGGATTGGGGGGTCAGAAC
CCACTCACTTTTGCTGTTAAAGTTGCCCTCCTGACGCTGGCAGCTCTGCCCTGGTCACTGGGGATGCGGCTCGT
TGCTCAGCCACCAGTGGCCTTGCGGTATTGTCCACCATCCACTAGAGTGGGATGAAGTCCAGAGTGTGGGTATAC
ATCTCAGATGCCATCTACCCACTGGGGACTTCAATGCCAGCTGCATTTGGTTTTGGTTTTCTTAACTGTTGGCTT
CTCCCCACAGCGTTTTTTGTTTTTTTTTAAACATTTCATATTGTTTTCAAACCTTGGAAATTCATAGACACTCTGGCT
CTAGGTTCCTTAAGGGGGAAAACAAAAGATGACTTTATTTTACATTCAAGAAAATCAGTTCAGTTCCAAAGCTGT
GGTCCCTCCAGCCACTTCTAGGGACACTGGGGAACCTTGTAAACGTTGACATCAGTGCTCTCCAGCCGTGCTGT
CACCTCCTATCTTCTGGATCTGCCCTTCGGGATGGTCAGTGACAGCTTCTGGAAGCTGAGCACACACAGGTGCAC
AGCCATGCTGTGGTCTGGCCTGCTACGGCAGCATGGCAGCTCTGGTGGAGCCTTCTCCCTTGCCATTTGGTTCCC
CTGTGCCAAGTAGCTGCAGGCTGCCCCCAAATCTTCATTTGTCCCTTTTCACTTCTGAGAACAAGCCTGGGT
TAGAGGTCTGCTGGAAATGGCCTTTGAAGACCAAGGATACCAGGATGTGTGCACTCTGTCGTGTTCTGTGATGA
ATGGGAAACGCAGGCTTCCAGAAAGCCAGCTCTCTCTGAAATGTGACGGACCTAAGCAGGAAGTCATCCAGGAC
AGGAGTGGCTCAGTGTGTTGGGGATGGACGCTGTGCCCCAGCCATGCTCCACCAGGGCCACCAATGTGTAGTTGGCT
GGTGGTCTTCGGGCATGTGAGACCTGCTCTTCACTGTTTCCACCCCACTTGGTGGCCTCCAGGATGGTAGTGGCA
CCCTCAGAGCCCCATCTTCAGCATGTTCTGAAGCCTCAGAGTGAAATTCCTGCTAAGGCTCTGTGTGGACGCCCT
TTCTCCCGTGATCTAAAGGGGACACTGTACTCAAGCTTTTGACCTCATGCCTTGTGTAGTAAAAAAGGATTTGGG
GGTTTTGTTTGGTTTCTGAGAGGGTTGTGTTTTGTTTTGTTTCTTTGTTTATGTTTTGGCCTTTCTCTTTG
TCTTTCCATGTAGACCAGATATTTGAAAGGGCAGACGATGGCTAGAGGTGTAATGTGCAGCTTGTGTTATACGGTA
TTTTGGGAAACTTACCTTGGATGGGAAATCGAATCGTGGATTACACAGGCCGGTGTGGCACACTCACCTCGCC
CTTTCCCTCCGGTTCACTACCTATTGTTTCTCCTTTCAAATATGTGATTGTACTAGCTCTTTCCATATGAAAGAA
TTCTCCTTATTTAAATAAAAAAGTTTAAAAAGAT

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FIGURE 950

EGFIEVLTKKQRRLLLEEERRKKEQAVQVPVKGRGLSSRIPPRFAKKQNNLCLEQGDVTVPGSSLGTEIWESSQA
LPVQAPANDSWRKAVTAFSSTETGSAEQGFKSSQGDGVDLSAESRESSATSSQRSSPYGTLKPEEMSGPGLAEP
KADSHKEQAPKPSEQKDSEQSGQSKEHRPGPIGNERSLKNRKGSEGAERLQGAVVPPVNGVEIHVDSVLPVPP I
EFGVSPKDSDFSLPPGSASGPTGSPVVKLQDALASNAGLTQSIPILRRDHHIQRAIGLSPMSFPTADLTLLK MESA
RKAWENSPSLPEQSSPGGAGSGIQPPSSVGASSGVNYSSFGGVSMPPMPVASVAPSASMPGSHLPPLYLDGHVFA
SQPRLVPQTIPQQQSYQQAAAAQQIPISLHTSLQAQAQLGLRGGLPVSQSQEIFSSLQPFRRSQVYMHPSLSPST
MILSGGTALKPPYSAFPGMQPLEMVKPKQSGSPYQPMGNQALVYEGQLSQAAGLGASQMLDSQLPQLTMLPRYG
SGQQPLILPQSIQLPPGQSLSVGAPRRIPPPGSQPPVLNTSREPSQMEMKGFHFADSKQNVPSGGPVPSPQTYRP
SSASPSGKPSGSAVNMGSVQGHYVQQAQQRVDEKPSLGAVKLQEAPSAASQMKRTGAIKPRAVKVEESKA

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FIGURE 951

AGATGCGAGCACTGCGGGCTGGGCGCTGAGGATCAGCCGCTTCCTGCCTGGATTCCACAGCTTCGCGCCGTGTACT
GTCGCCCCATCCCTGCGCGCCCAGCCTGCCAAGCAGCGTGCCCCGGTTGCAGGCGTCATGCAGCGGGCGCGACCC
ACGCTCTGGGCGCGCTGCGCTGACTCTGCTGGTGCTGCTCCGCGGGCCGCGGCTGGCGCGGGCTGGCGCGAGCTCG
GGGGGCTTGGGTCCCGTGGTGCGCTGCGAGCCGTGCGACGCGCGTGCACTGGCCCACTGCGCGCCTCCGCCCGCC
GTGTGCGCGGAGCTGGTGCGCGAGCCGGGCTGCGGCTGCTGCTGACGTGCGCACTGAGCGAGGGCCAGCCGTGC
GGCATCTACACCGAGCGCTGTGGCTCCGGCCTTCGCTGCCAGCCGTGCCCCGACGAGGCGCGACCGCTGCAGGCG
CTGCTGGACGGCCGCGGGCTCTGCGTCAACGCTAGTGCCGTGAGCCGCTGCGCGCCTACCTGCTGCCAGCGCCG
CCAGCTCCAGGAAATGCTAGTGAGTCGGAGGAAGACCGCAGCGCCGGCAGTGTGGAGAGCCCGTCCGTCTCCAGC
ACGCACCGGGTGTCTGATCCCAAGTTCCACCCCTCCATTCAAAGATAATCATCATCAAGAAAGGGCATGCTAAA
GACAGCCAGCGCTACAAAGTTGACTACGAGTCTCAGAGCACAGATACCCAGAACTTCTCCTCCGAGTCCAAGCGG
GAGACAGAATATGGTCCCTGCCGTAGAGAAATGGAAGACACACTGAATCACCTGAAGTTCTCAATGTGCTGAGT
CCCAGGGGTGTACACATTCCCAACTGTGACAAGAAGGGATTTTATAAGAAAAAGCAGTGTGCGCCTTCCAAAGGC
AGGAAGCGGGGCTTCTGCTGGTGTGTGGATAAGTATGGGCAGCCTCTCCAGGCTACACCACCAAGGGGAAGGAG
GACGTGCACTGCTACAGCATGCAGAGCAAGTAGACGCCTGCCGCAAGGTTAATGTGGAGCTCAAATATGCCTTAT
TTTCTACAAAAGACTGCCAAGGACATGACCAGCAGCTGGCTACAGCCTCGATTTATATTTCTGTTTGTGGTGAAC
TGATTTTTTTTAAACCAAAGTTTAGAAAGAGGTTTTTGAATGCCTATGGTTTTCTTTGAATGGTAAACTTGAGCA
TCTTTTCACTTTCCAGTAGTCAGCAAAGAGCAGTTTGAATTTTCTTGTGCTTCTTATCAAATATCTAGAGACT
CGAGCACAGCACCAGACTTCATGCGCCCGTGGAATGCTACCACATGTTGGTGAAGCGGCCGACCACTGACTT
TGTGACTTAGGCGGCTGTGTTGCCTATGTAGAGAACACGCTTACCCCCACTCCCTGTACAGTGCACAGGCTT
TATCGAGAATAGGAAAACCTTTAAACCCCGGTCATCCGGACATCCCAACGCATGCTCCTGGAGCTCACAGCCTTC
TGTGGTGTCATTTTCTGAAACAAGGGCGTGATCCCTCAACCCAGAAAGAGTGTATGTCTTCAAGTGACCTGTAC
TGCTTGGGGACTATTTGAGAAAATAAGGTGGAGTCTTACTTGTTCACAAATATGTATCTAAGAATGTTCTAGGG
CACTCTGGGAACCTATAAAGGCAGGTATTTGCGGCCCTCCTCTTCAGGAATCTTCTGAAGACATGGCCCAGTCG
AAGGCCAGGATGGCTTTTGTGCGGCCCGTGGGGTAGGAGGGACAGAGAGACAGGGAGAGTCAGCCTCCACAT
TCAGAGGCATCACAAGTAATGGCACAATTCTTCGGATGACTGCAGAAAATAGTGTTTTGTAGTTCAACAACCTCAA
GACGAAGCTTATTTCTGAGGATAAGCTCTTTAAAGACAAAGCTTTATTTTCATCTCTCATCTTTTGTCTCCTTA
GCACAAATGCAAAAAGAATAGTAATATCAGAACAGGAAGGAGGAATGGCTTGCTGGGGAGCCCATCCAGGACACT
GGGAGCACATAGAGATTCACCCATGTTTGTGTAACATTAGAGTCATTCTCATGCTTTTCTTTATAATTACACATA
TATGCAGAGAAGATATGTTCTTGTAAACATTGTATACAACATAGCCCCAAATATAGTAAGATCTATACTAGATAA
TCCTAGATGAAATGTTAGAGATGCTATATGATACAACCTGTGGCCATGACTGAGGAAAGGAGCTCACGCCCAGAGA
CTGGGCTGCTCTCCCGGAGGCCAAACCCAAGAAGGTCTGGCAAAGTCAGGCTCAGGGAGACTCTGCCCTGCTGCA
GACCTCGGTGTGGACACACGCTGCATAGAGCTCTCCTTGAAAACAGAGGGGTCTCAAGACATTCTGCCTACCTAT
TAGCTTTTCTTTATTTTTTTAACTTTTTTGGGGGGAAAAGTATTTTGAAGAAGTTGTCTTGAATGTATTTATAA
ATAGTAAATAAAGTTTTTACCATT

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FIGURE 952

MQRÄRPTLWAAALTLLVLLRGPPVARAGASSGGLGPVVRCEPCDARALAQCAPPFAVCAELVREPGCGCCLTCAL
SEGQPCGIYTERCGSGLRCQSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAPGNASESEEDRSAGSVE
SPSVSSTHRVSDPKFHPLHSKIIIIKKGHAKDSQRYKVDYESQSTDTQNFSSSESKRETEYGPCRREMEDTLNHLK
FLNVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTTKGKEDVHCYSMQSK

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FIGURE 953

CCGCGGCGGCGTCCGGGGTCTCCAGTAGGGCTGACGCTCCGGTGCTCGCACAAATCCCCGCCTCGGCTGGCAACG
GGCGTCCCTCCACTCCCCGAGTCCCCGGCAGCCGCCGCCACCCAGCGCGCCCCGATCTGGCCCCCTGCCCCGCG
AAGATGGCTGCCGTACGCCGGGCCCCGAGTTATTGCCGCTGCCTGGTGCGCTTCTCCGACCGAGAACTCTGCTAA
GCTCCGCTGCAGAGACAGGCAGGAGTAGACACCCGGACACCCAGCACCCCTCTCCGGGGGGCGGTGCAGAGGGG
GCACGGAGAGCCCCCTCGAGCGCAGCAGGCCGCCCCGCCAGCATGGCAGAAGCTGAGGAAGATTGTCATTCTGATA
CTGTGAGAGCAGATGATGATGAAGAAAATGAAAGTCCTGCTGAAACAGATCTGCAGGCACAACTCCAGATGTTCC
GAGCTCAGTGGATGTTTGAACCTTGCTCCAGGTGTAAGCTCTAGCAATTTAGAAAAATCGACCTTGAGAGCAGCAA
GAGGCTCTCTCCAGAAAACATCGGCAGATACCAAAGGAAAAACAAGAACAGGCAAAAAGAGAAAAGGCTCGAGAAC
TCTTCTCTAAAAGCAGTAGAAGAAGAACAAAATGGAGCTCTCTATGAAGCCATCAAGTTTTATCGTAGGGCTATGC
AACTTGTAACCTGATATAGAGTTCAAGATTACTTATACCCGGTCTCCAGATGGTGATGGCGTTGGAACAGCTACA
TTGAAGATAATGATGATGACAGCAAAATGGCAGATCTCTTGTCTACTTCCAGCAGCAACTCACATTTAGGAGT
CTGTGCTTAAACTGTGTGAGCCTGAGCTTGAGAGCAGTCAGATTACATATCAGTGCTGCCAATGGAGGTCTGA
TGACATCTTCCGATGGGTGGTGTCTAGTGACTTGACCTCAGATCATTGGAGCAGTTGTGCTGGTGTGCAGAG
GATTCTACATCTGTGCCAGAGACCTGAAATATGGCGTCTGGCCTGCTTGAAAGTTTGGGGCAGAAGCTGTATTA
AACTTGTTCGGTACACGTCCTGGAGAGAGATGTTTTTAGAACGGCCTCGTGTTCGGTTTGATGGCGTGTATATCA
GTAAAACCATATATTCTGCAAGGGGAACAGTCTCTTGATGGTTTCTATAGAGCCTGGCACCAAGTGGAATATT
ACAGGTACATAAGATTCTTTCTGATGGCCATGTGATGATGTTGACAACCCCTGAAGAGCCTCAGTCCATTGTTC
CACGTTTAAGAACTAGGGAATACCAGGACTGATGCCAATTCTACTGGGTCACTATCGCTTGGCACAAGACACAGA
CCATCAGACCCAAAGTATTTTGTGTAATAACTAAGAAAAAAGGAAGAAAAACCACTTGGACTATAAATACCCG
ATATTTTCGTGCTGTCCCTGTACAAGAAGCAGATCAGAGTTTTCATGTGGGGCTACAGCTATGTTCCAGTGGTCA
CCAGAGGTTCAACAACTCATCTGGATACATCATTCTTGTACATTACTTACAAATCAACTGGTGAGACTGCAGT
CAGTGCTTTTGAGATTGACAAGATGTACACCCCTTGTCTTCGCCAGAGTAAGGAGCTACACAGCTTTCTCAGA
AAGGCCTCTGTAGAGCCTCAAGTCCAGTCTCTATCACTTTTGCATGAATTAAAGTATATAGCGCAAAAAAAAAA
AAAAAACTCTCTCCTCGTGCCGAATTCGGCACGAGGGACTACAACCTCTCCAGGTATGCGACGGGAAAGTATC
CGTCCACGTCATCGAGGGTGACCACCGCACGCTGCTGGAGGGCAGCGGCTGGAGTCCATCATCAGCATCATCCA
CAGTCTCCCTGGCTGAGCCACGCGTGAGCGTGCGGGAGGGCTAGGCCCCGTGCCCCGCTGCACCGGAGGTCACTC
ACCATCCCCACCCACCCACCCCGCCATGCAACGGGATTGAAGGGTCTGCGGGTGGGACCCTGTCCGGCCCCA
GTGCCACTGCCCCCGAGGCTGCTAGACGTAGGTGTTAGGCATGTCCACCCACCCGCCGCTCCCACGGCACCT
CGGGGACACCAGAGCTGCCGACTTGAGACTCCTGGTCTGTGAAGAGCCGGTGGTGCCCGTGCCTCGCAGGAAGT
GGCTGGGCCTCGTGCGCCCGTGGGGTCTGCGCTTGGTCTTTCTGTGCTTGGATTGTCATATTTATTGCATTGCTG
GTAGAGACCCCCAGGCCTGTCCACCCTGCCAAGACTCCTCAGGCAGCGTGTGGGTCCCGCACTCTGCCCCATTT
CCCCGATGTCCCTGCGGGCGCGGGCAGCCACCCAAGCCTGCTGGCTGCGGCCCCCTCTCGGCCAGGCATTGGCT
CAGCCCGCTGAGTGGGGGGTCTGTTGGCCAGTCCCCGAGGAGCTGGGCCCCCTGCACAGGCACACAGGGCCCCGCCA
CACCCAGCGGCCCCCGCACAGCCACCCGTGGGGTGTGCCCTTATGCCCGGCGCCGGGCACCAACTCCATGTTT
GGTGTGTTGCTGTTGTTGTTTTTCAAGAAAATGATTCAAAATGCTGCTTGGATTTTGAAATTTACTGTAACTGTCA
GTGTACACGTCGAGACCCCGTTTCAATTTTACACCAATTTGGTAAAAATGCTGCTCTCAGCCTCCACAATTA
CCGATGTGATCTCCAAAAA

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FIGURE 954A

GCCGCGCACTCTCCGCGGCGCTGGGAGAGGGCGGAGGGGGAGGCGGCGCGGCGGCCAGAGGAGGGGGGACGCAG
GGGGCGGAGCGGAGACAGTACCTTCGGAGATAATCCTTTCTCCTGCCGAGAGGAGAGGAGCGGCCGGAGCGAGA
CACTTCGCCGAGGCACAGCAGCCGGCAGGATGGCGACCGTGGTGGTGAAGCCACCGAGCCGGAGCCGTCCGGCA
GCATCGCCAACCCGGCGGCGTCCACCTCGCCTAGCCTGTCGCACCGCTTCCTTGACAGCAAGTTCTACTTGCTGG
TGGTCGTCGGCGAGATCGTGACCGAGGAGCACCTGCGGCGTGCCATCGGCAACATCGAGCTCGGAATCCGATCAT
GGGACACAAACCTGATTGAATGCAACTTGACCAAGAAGTCAAACCTTTTTGTATCTCGACACTCTGCAAGATTCT
CTCCTGAAGTCCAGGACAAAAGATCCTTCATCACCAGAGTGACGTTTTAGAAACAGTGGTCTGATCAACCCTT
CTGATGAAGCAGTCAGCACCGAGGTGCGCTTAATGATCACTGATGCTGCCCCGACACAAGCTGCTCGTGCTGACCG
GGCAGTGCTTTGAAAATACCGGAGAGCTCATTCTCCAGTCCGGCTCTTTCTCCTTCCAGAACTTCATAGAGATT
TCACCGATCAAGAGATCGGGGAGTTACTAAGCACCAACCCATCCTGCCAACAAGCCAGCTTAACCCTGTTCTGTC
CTGAAGAAGGGGACTGGAAGAAGTCCAATCTTGACAGACACAATCTCCAAGACTTCATCAATATTAACTCAATT
CAGCTTCTATCTTGCCAGAAATGGAAGGACTTTCTGAGTTTACCGAGTATCTCTCAGAATCAGTGGAAGTCCCAT
CTCCCTTTGACATCTTGGAACCTCCACATCGGGTGGATTTCTGAAGCTCTCCAAGCCCTGCTGTTATATTTTC
CAGGAGGGAGGGGCGATTCTGCCTTGTTTGCAGTGAATGGTTTCAATATGCTCATCAATGGCGGATCAGAGAGAA
AATCCTGCTTCTGGAAGCTCATCCGACACTTAGACCGAGTGGACTCCATCCTGCTCACCCACATTGGGGATGACA
ATTTGCCTGGAATAAACAGCATGTTACAGCGGAAAATTGCAGAGCTCGAGGAAGAACAGTCCCAGGGCTCCACCA
CAAATAGTGACTGGATGAAAAACCTCATCTCCCTGACTTAGGAGTTGTATTTCTCAATGTACCTGAAAATCTCA
AAAAATCCAGAGCCAAACATCAAGATGAAGAGAAGCATAGAAGAAGCCTGCTTCACTCTCCAGTACCTAAACAAT
TGTCATGAAACCAGAACCTCTGTTTAGAAGTGTAGGCAATACTATTGATCCTGTCATTCTTTTCCAAAAAATGG
GAGTAGGTAACTTGAGATGTATGTGCTTAATCCAGTCAAGAGCAGCAAGGAAATGCAGTATTTTATGCAGCAGT
GGACTGGTACCAACAAAGACAAGGCTGAATTCATTCTGCCTAATGGTCAAGAAGTAGATCTCCCGATTTCCTACT
TAACTTCAGTCTCATCTTTGATTGTGTGGCATCCAGCAAACCTGCGGAGAAAATCATCCGAGTCTGTTTCCTG
GGAACAGCACCCAGTACAACATCCTGGAAGGGTTGGAAGAGCTCAAACATCTAGACTTTCTGAAGCAGCCACTGG
CCACCCAAAAGGATCTCACTGGCCAGGTGCCCCTCCTGTGGTGAAACAAACAAAAGTGAACAGAGGGCTGATA
GCCGAGAAAGTCTGAAGCCAGCCGCAAAACCACTTCCTAGCAAATCCGTGCGCAAGGAGTCAAAGAAGAAACCC
CTGAGGTCACAAAAGTGAATCACGTGGAAGGCCACCCAAAGTTGAAAGCAAAGAAAAGGTAATGGTGAAGAAAG
ACAAGCCAGTAAAAACAGAGACCAAACCTTCAGTGACTGAAAAGGAGGTTCAGCAGCAAAGAAGAGCCATCTCCAG
TGAAAGCCGAGGTGGCTGAGAAGCAAGCCACAGATGTCAAACCCAAAGCTGCCAAGGAGAAGACGGTGAAGAAAG
AAACAAAGGTAAAGCCTGAAGACAAGAAAGAGGAGAAAGAAAAGCCAAAGAAAGAAAGTGGCTAAAAAGGAGGACA
AAACACCTATCAAGAAGGAGGAAAAACCAAAAAAGGAAGAGGTGAAAAAGAAAGTCAAAAAAGAGATCAAGAAAG
AAGAGAAAAAGAAACCAAGAAAGAGGTAAAGAAAGAAACACCGCCAAAGGAAGTCAAGAAGGAAGTTAAGAAGG
AAGAGAAGAAAGGAAGTGAAGAAAGGAAGAAAGGAACCCAAAAAGAAATTAAGAAGCTCCCTAAAGACGCAAGA
AATCATCTACTCCTCTGTCTGAAGCAAAAAAACAGCTGCTTTAAACCAAAAGTACCCAAAGGAAGAGTCTG
TCAAGAAAGATTCTGTTGCTGCCGAAAGCCAAAGGAGAAAGGGGAAAATAAAAGTCATTAAGAAGGAAGGCAAGG
CCGAGAGGGCTGTGCTGTCAGCTGTGCGGCACTGGAGCCACCACAGCAGCTGTCTATGGCGGCAGCTGGAATAGCAG
CCATTGGCCCTGCCAAAGAACTCGAAGCTGAGAGGTCCCTTATGTCTCTCCTGAGGATCTAACCAAGGACTTTG
AAGAGTTAAAGGCTGAAGAGGTGATGTAACAAAGGACATCAAGCCTCAGCTGGAGCTAATCGAAGACGAAGAGA
AACTGAAGGAACTGAGCCAGTCAAGCCTACGTATCCAGAAGGAGAGAGAAGTCAACCAAGGTCTGCCGAGT
CCCCTGATGAGGGAATCACTACCACTGAAGGGGAGGGCGAATGTGAACAGACACCTGAGGAGCTGGAGCCCGTCCG
AGAAGCAGGGAGTAGACGACATTGAAAAATTTGAAGATGAAGGAGCCGTTTTGAAGAATCTTCAGAGACTGGAG
ACTATGAAGAGAAGGCAGAACTGAGGAGGCTGAGGAGCCAGAAGAGGATGGGGAGGAACACGTATGTGTGAGCG
CCTCCAAGCACAGCCCCACTGAGGATGAGGAAAGTGCCAAGGCGGAGGCTGATGCATACATCAGGGAGAAGAGGG
AGTCTGTGGCCAGTGGGGATGACCGAGCCGAAGAAGACATGGATGAGGCCATTGAGAAAGGAGAGGCTGAACAAT
CTGAAGAGGAGGCTGATGAGGAGGACAAAGCTGAAGATGCCAGAGAGGAGGAATATGAGCCGAAAAAATGGAAG
CTGAAGACTATGTGATGGCTGTGGTCGACAAGGCTGCAGAGGCTGGTGGTGCCGAGGAGCAGTATGGATTCTCA
CCACACCAACCAAGCAACTAGGAGCCAGTCTCCTGGCCGAGAACCTGCATCTTCAATTCATGATGAGACTTTAC
CTGGAGGCTCAGAGAGCGAGGCCACCGCTTCTGATGAGGAGAATCGAGAAGACCAGCCTGAGGAATTCAGTCCCA
CCTCTGGCTACACTCAGTCTACTATTGAGATATCCAGTGAGCCCAACCCCATGGATGAGATGTCTACCCCTCGAG

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FIGURE 954B

ACGTGATGAGTGATGAGACCAACAATGAAGAGACGGAGTCCCCTTCTCAGGAATTCGTAAATATCACCAAATATG
AATCTTTCATTGTATTCTCAGGAATACTCTAAACCTGCTGATGTTACACCGCTCAACGGATTTTCTGAAGGATCAA
AAACAGATGCCACTGATGGCAAGGATTACAATGCTTCAGCCTCTACCATATCACACCCTCTTCCATGGAGGAAG
ACAAATTCAGCAGATCTGCTTTACGTGATGCTTACTGCTCTGAAGTGAAAGCCAGCACCCTTTGGACATCAAAG
ATAGCATCTCAGCTGTTTCAAGTGAAAAGGTGAGCCCATCGAAGAGCCCGTCCCTGAGTCCATCTCCACCATCAC
CCTTAGAAAAGACCCCCCTGGGTGAACGTAGTGTGAACCTTCTCTCTGACGCCCAATGAGATTAAAGTCTCTGCAG
AGGCAGAAGTAGCCCCGGTGTCTCCTGAGGTGACCCAAGAAGTAGTTGAAGAACATTGTGCTAGTCTCTGAGGACA
AGACTCTGGAAGTGGTGTACCATCTCAGTCCGTGACTGGCAGTGCTGGTCACACACCTTACTATCAATCTCCTA
CTGACGAGAAAATCCAGTCATCTCCCTACAGAAGTCATTGAAAAACCACCAGCAGTTCCAGTGAGTTTTGAATTCA
GTGATGCCAAAGATGAGAATGAAAGGGCTTCAGTAAGCCCCATGGATGAGCCCGTGCCTGACTCAGAGTCTCCTA
TTGAAAAAGTTTTGTCTCCTTTACGCAGCCCGCCCCCTCATTGGATCCGAGTCTGCTTATGAAAAGTTTTCTAAGTG
CTGATGACAAGGCTTCTGGCAGAGGTGCCGAAAGTCCTTTTGAAGAAAAGAGTGGAACCAAGGCTCTCCAGACC
AAGTAAGTCCAGTTTCTGAAATGACTTCTACTAGTCTTTACCAAGACAAACAGGAAGGGAAAAGCACAGACTTTG
CACCAATAAAAAGAAAGACTTTGGCCAAGAAAAGAAAAGTATGATGTTGAAGCCATGAGTTCTCAACCAGCACTGG
CTCTGGATGAAAGGAAATTAGGAGATGTTTCTCCACACAAATAGATGTGAGTCAGTTTGGATCTTTTAAAGAAG
ACACTAAGATGTCCATTTCTGAAGGTACTGTCTCAGACAAGTCAGTACTCCTGTTGATGAGGGCGTAGCAGAAG
ACACGTACTCTCATATGGAGGGTGTGGCCTCAGTGTCCACAGCCTCAGTGGCTACGAGCTCATTTCAGAGCCAA
CAACAGATGATGTGTCTCCATCTCTGCATGCTGAGGTTGGCTCCCCACATTCCACAGAAGTAGATGACTCCCTTT
CAGTGTCTGTTGTGCAACACCTACCACATTCCAGGAAACAGAAATGTCTCCATCTAAAGAAGAATGCCCAAGAC
CGATGTCAATTTCTCCACCAGATTTCTCCCCTAAAAGTCCAGGACACCCGTTCAAGATCACAGATCTG
AACAGTCCCTCAATGTCTATTGAATTTGGCCAAGAATCTCCTGAGCAATCCCTTGCTATGGACTTCAGTCGACAGT
CTCCAGATCACCTACAGTGGGTGCAGGCGTGCTTACATCACTGAAAATGGGCCAACTGAAGTGGACTACAGTC
CTTCTGACATGCAGGACTCCAGTTTATCACATAAGATAACCACCTATGGAGGAGCCGCTTACACCCAAGATAATG
ATCTTTCTGAGCTCATCTCAGTATCTCAGGTAGAGGCCTCCCCGTCCACCTCTTCTGCTCATACCCCTTCTCAGA
TCGCTTCTCCTCTCCAAGAAGATACTCTATCCGATGTTGCTCCTCCCAGAGATATGTCTTATATGCCTCACTCA
CCTCTGAAAAAGTGCAAAGTCTGGAAGGAGAGAAGCTCTCTCCAAAATCTGATATCTCTCCACTCACCCACAGAG
AGTCTCTCCTTTATATTACCTACTTTTTTTCAGATTCTACCTCTGCAGTCAAAGAGAAAACAGCAACTTGCCACA
GTTCTCTTCTCCACCAATAGATGCAGCATCCGCAGAGCCCTATGGCTTCCGTGCCTCAGTGTATTTCGATACAA
TGCAACACCATCTAGCCTTGAATAGAGATTTGTCCACACCTGGCCTGGAGAAGGACAGTGGAGGGAAGACACCTG
GTGACTTTAGCTATGCCTATCAAAGCCTGAGGAAACAACCAGGTCCCAGATGAAGAAGATTATGACTATGAGT
CTTATGAGAAGACCACCCGGACCTCAGATGTGGGTGGCTATTACTATGAGAAGATAGAGAGAACCACAAAATCTC
CAAGTGACAGTGGCTACTCCTATGAGACCATTGGGAAAACCTACCAAGACCCCTGAAGATGGTGACTATTCTATG
AAATTATTGAGAAGACCACACGACCCCTGAAGAGGGTGGGTACTCATATGACATAAGTGAAGAAGACCACAGCC
CCCCGAAGTGAGTGGTTACAGCTATGAAAAGACTGAGAGGTCTAGAAGGCTTCTGGATGACATCAGCAATGGCT
ATGATGACTCTGAGGATGGTGGCCACACACTTGGGGACCCAGCTACTCTTATGAAACCACTGAGAAAATTACCA
GTTTCCCTGAGTCTGAAGGTTATTCTATGAGACATCTACAAAGACAACACGAACCCCTGATACTTCCACATACT
GTTACGAGACTGCAGAGAAAATCACTAGAACCCCTCAGGCATCCACATATTCTACGAGACTTCAGACCTATGCT
ACACTGCAGAAAAGAAGTCCCCCTCAGAAGCCCGTCAGGATGTGATTTATGCCTCGTGTCTCTTGTGAATACA
AGCACCCCAAGACAGAGCTTTACCCCTCTTTTCAATTAATCCCAATCCTCTTGAGTGGTTTGCCAGTGAAGAACCCA
CTGAAGAATCTGAAAAGCCCTCACTCAATCAGGGGGAGCCCCACCGCCTCCAGGAGGAAAGCAACAGGGCCGAC
AGTGTGATGAAACCCCTCCACCTCAGTCAGCGAGTCAGCCCCATCCAGACCGACTCTGATGTTCCCCCGGAGA
CTGAAGAGTGCCCTCCATCACGGCCGATGCCAATATCGACTCTGAAGACGAGTCGGAACCATCCCCACAGACA
AACTGTACGTACAAACACATGGACCCACCTCCAGCTCCCGTGCAAGACCGCAGCCCTTCGCCACGCCACCCTG
ATGTGTCCATGGTGGACCCAGAGGCTTGGCCATTGAGCAGAACCTGGGCAAAGCTCTAAAGAAAGATCTGAAAAG
AGAAGACCAAAACCAAAAGCCAGGTACAAAAGACCAAGTCATCTTACCTGTCAAAAAGAGTGATGGGAAGTCTA
AGCCCTTGGCAGCTTACCAAAAACAGCGGGCTTGAAAGAATCCTCGGATAAAGTGTCAGGGTGGCTTCTCCTA
AGAAGAAAGAATCTGTGGAAGAGCAGCAAAACCCACCACCTCCTGAGGTCAAAGCTGCACGTGGGGAAGAGA
AAGACAAGGAGACCAAGAATGCTGCCAATGCCTCTGCATCCAAGTCGGCCAAGACCGCCACTGCAGGACCAGGAA

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FIGURE 954C

CTACCAAGACGACCAAGTCATCTGCTGTGCCCCAGGCCCTCCCTGTGTATTTGGACCTGTGCTACATTCCCTAACC
ACAGCAATAGTAAGAATGTTGATGTGGAATTTTTCAAGAGAGTGCGGTCTTCCCTACTACGTGGTGAGTGGGAATG
ACCTGCTGCTGAGGAGCCAGCCGGGCTGTCTGGACGCTTTGTGTGGAAGGAAAGGCTCAGTGGGGCAGCAACA
TGCAGGTGACACTGATCCCACTCATGACTCAGAAGTGATGAGGGAATGGTACCAGGAGACCCATGAGAAACAGC
AAGATCTCAACATCATGGTTTTAGCAAGCAGCAGCACAGTGGTTATGCAAGATGAATCCTTCCCTGCATGCAAGA
TTGAACTGTAAAAACCAAGGCCAGCCACACCACAGGATCTGAACTTTGTTTCCAGAAATTCTTCAATTTGAAATC
ACCTTTTCTAAAAAGTCAATTCATCTAGTTAAGTCGCTGAACAATTACCTGCCAAATGCTATACTGTGTCTATGGT
GATGCAAGTCACTAAATTTCTCAGTTTTTGTCTGATTGCTAAGGGAAATAACAGTATTTCCACAATAGGGTTCAA
TTCTGCAAAATTACCTACCCAGTTCATCTCTGCTGAACATTTGGAAACCATGCACTAGCCAACCCAACTGACT
TCTGCTAGGTAGAGGCATTTGTCTTAGAGAGAGAGAGAGCGCGGGAGAGAGTGAGAGAGAGCTGAGAGCACAAAG
ATAACGCAGGTGAGAGAGAGAGAAAGAATGAGGAAAGAAAAGGAATGCAAGAGAAGGAGATGTAATGACAGAGAG
TTCTGGTGAGATACCCAGAGAGAGAAAAGAGAGAGCAGGGTGGGGTAAGGAGGAGAAAATAAACCAACAATTAGGT
CTGCATTTTCTCAGGCAGTAGGCATTCTTTAGTCTACATAGGCAAAAGTTTTCCATTTTTGTCTAGTCTGAGTCATC
AAAAAGAGTCTTAATTTTCTAAACAAGTTGGCTAGAAGAAAAGTAAAAAGAACAACACTTGTTATGAGGGCATGT
GATATTTTACATCTTAATTAAGCTCCTTCAGTTTGAAGGCTGCACACTGACATAATGTAGTGAGTGAGTACTGG
CCATGCAAGTGGTTTGGGCCCCATTGAGAACTCTCAGACTCTAAACACACAAGTAGATTGATCTAAGGCATGCTC
CCAGCATTTGTCCACCCACTTAGTCCACTCTGAGTCGATTAACTGCATGCAGCAACACCCAAAGTCCACCCCAAT
TAAGTGAAGCAATACCAAAGCAGTTGGGAGTACATATGGTAGACAATTTGCCTTAGGAAGTGACTTGAATGTAC
AAAGATACTTGATGCACTTATTTTTTAATGTGAGACAGCAAGTTTATAAAACATCCATATAGGATTATAGATACT
TAAAGGAACACGTGGGTGAGCGTGTGTGGGGTACTAGAAGCTGATCTGATTGGTCCAACAGTTTGATGCTGAGT
CATGCGTGTTGAATCCCACTTCAGTGCACCTGTGGCCTCTCAGTCAAACAGTTGTGCCTTTTCACAGCTTCTTTA
CTACTGCAAGTTCAAGACTGAAATGGCTTCTATGATCAGAACTGGGAAAACAGTGAATCTTATGGTGGAAGAGGT
TCTCAGCAAGTGTACAGTATTTACCTTCCCTTGTCTTACATTGGCTTTTTTAAATTTTCCATTAATTTCAACATAA
TTATGGGAACAAGTGACAGAAGAATTTTTTTTTTAAGATATGTGAGAACTTTTCATAGATGAACCTTTTTAACA
ATGTTTTTCATTTACAGGAAATTGCAAGAAAATTTCTCAAGTGATAGTCTTTTTTTTTTAAGTGTTCGTAAGACA
AAAATTGAATAATGTTTTTTGAAGTTCTGGCAAGATTGAAGTCTGATATTGCAGTAATGATATTTATTAATAAAC
CATAACTACCAGGAATAATGATACCTCCCACCCCTTGATTCCCATACATAAAAGTGCTACTTGAGAGTGGGGGA
GAATGGCATGGTAGGCTACTTTTCAGGGCCTTGACAAGTACATCACCCAGTGGTATCCTACATACTTCTTTCAAG
ATCTTCAACCATGAGGTAAAAGAGCCAAGTTCAAAGAACCCTAGCACAAATTTGCTTTGGGATTTTCTTTTCTGG
AAAAAAAAAATAAAAGAAATAGTACATTGAAAACAAATGAATTTCTCACTCCTACGGTTCATGTAGAGTTAGAG
AAAATTTCCATCATTGTCTCATCATTGAACTGTGAACCTGGGAAGCCAGATCATGATTAACACTGACATCAAGTTT
AAGTTGCAGATCAATGCACCCAGTGTTCAGATGAGGCAAACTTCTCCGTGACAACCTGTGCTGTGCTCTGTACAT
TACATTTCTGCAGACTCTAAGATCTACGGAGTAGAGAACAATGACCTCATTTTATTTTCTATGTTAGTTATTTA
TTTCAAATTAACATTTTAGTTGATTTTTGTCTGATAAGTCTATGTTTTGCACTGCTAACTATGATGAGGGTTTA
AAAAAATGCTTCTTCAGGGTCTTTCACTGAGGACCTATGCAGTCTACTTAATGCTGTGAATTACATTTTTCAA
TGTTTAATTTTTTAAAGAAAATTAATATTCTATTTTTGTAGGCTTCTCTAGAAATGCAGCTTTTATTTATTACC
CCATTTCTTTCAAGTCTTGGAAAATAACATATTAAGGGTACAAGAAATTAACACATGATGGAAAAGTCATTGTG
ACGCCAATGAATTTTATTGAGTATAAACTCATCTACTTCAAATTTATTTTATAAGACAACCTAAGATACTCAAGA
TAATTTTAAATGGTTAGCTCTTAAGTTGAATTGGTCTACATAATGCGTGGGAAGAAAACCAGATTTTATAGCCTT
CTTGCCAAATCCAGACCTCTGGTTGATTTTTCTTTGACAGAAGATGCAAGTTATTTTCCAATTTCACAATTAAT
GTATTTAACATGAACATTATTTTGTCTTAAAACTATAAACATTGTAGGAGAATTATAGCCAGTCTTCAGTTATA
ACCACTCCACCCCTCTCACTTTCTGCTCTCTCTCTCTTTTTTTTTTGTCTATGGGATTTAATGGGAAAAATATG
TAAAACTGTCACTAGTCAGCTGGCTCTTTTTCCCTATGAAATCTATCAGTACCTTTCTCCATCCGTGTTCTCAA
TAATGACCACAGAGCCTGAGTATACCAAGAAAACCAATATTGCGATTACAGGTTGCTCCTGTCTTCCAGACACC
TTTCTGCTGTGTGACTAACCTAATTTTGTAGTTCCATAAATACACGATTAGTTTAGTAACAGCCATCACAAT
GTACCATGTACATTCATGGTGAGAGCTAAAGATCGACACAGACTTCTAGGAGCTTTGTTTCATACTGATTACTTAA
TCCAATTGTATAGATTGAATATTTGAGTGGAAGGAATTTACACTCTGTTTAAATGATGGGATTTCTATCGAGATAG
CACTCATGATCATGACCTTTTTGGTAGTATTCTTAAACAAAATTTCTACAGAGACTAAATGTTAGCGATGATCCTC

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FIGURE 954D

CATTTTCAATTTTAACCAATTCTGTCCCCTTTCTCAAAACCCTGAGCCCTGTGCATGCTTTCTCAGTCTTGTTGGT
GGGACTGGATACAATGACTAACTTCCCCCTCCTCCCCTCTTTAAACACCATTTTCCATGGAGTTCAAAAAATTTT
TTTCTTAAACGTTACATATCATAGTGAATGGTTTCCCCAGTGTATATGAATGTTTTAAGTGTCTCCAATAGCTTAT
GCAGTCTAGGAGCTTTCCAATACTCATTTAATTAAGATTTAATCATTTGCTAATGGAAATCTTACCACCTTTTCAT
TTTCCCCTCTGTTACCAAATTTTCTAGGAGCTGCTCTACAATTCTGAATTTGCTTTTCTTGCCCTCTCTTTA
GTCACCTGTACAGGAGGTTCCCTGCTCAGTAATGATATTGTGAGTTAGGATAATAACTTTTTTTTTTTGTGCTTC
AGATTTAGAAGAAAAGATCCTGTTTCCATTTGAAAGGAACTGTAAGCTTTTATCTTTTAACCAACTGAACAATAC
ACCAAAGCAGCCTAGGGATGAGCATTCTTTGAAAGCAATTAGGTTATTACCTGGTATTAAAACTATTTACTG
TTAAAAATCTGTGACTTCATGAAGTTGATTTTTTAAAGGCAGCATCAAAAAGTAAAAAGGAAGGGAAAAAATAGG
CAGCTTCTCTGCACTTGTTTGGAGCTCCCCAAAACAGGAGCCATGGAGAAGTGGCATCAAGACCGGGCTGCCCTT
TCGAGAACACCCTGTGGCAGTTCAGAGACACGCTTTTCTACACTGCATGCAGCCCCCTCTTCCAGCACTGGAAA
GAAGTGGTCTTGAGCCCAGCTGAGAAGCACTTCACACTCCTCTCTCTTGTCTGAATGGTGTGTTGTGTCAGTCTG
CAGCTGTGTATGGTATTATGTCTTATAATCCTGCATCACTTCTATCCTATCCAGTCATATCTAATGTAGAAAATT
AGTTTCCAGTAAAAGTAATATGTAGTGCTTTTATGATATTTGTGTGCAATATCCCCCTCTTCCATTGAGGATATTT
GATGTAAAGGAAAAAAAAAACTCAGTTCCACAATAAAATACAAAAGTGGCAAAGTTAAAAAAATCTATGTCGG
TGC GGAGAAAGAGGTAATGAAATGGCAGGAATTCGATATCAGCTTATCGATACCGCGACCTCGAGGGGGCCCGTA
CCAG

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FIGURE 955

RALSAALGEGGGGGGARRQRGDAGGGAETVPSEIILSPAEEERSGRSETLRRGTAAGRMATVVVEATEPEPSGS
IANPAASTSPSLSHRFLDSKFYLLVVVGEIVTEEHLRRAIGNIELGIRSWDTNLIENLDQELKLFVSRHSARFS
PEVPGQKILHHRSDVLETVVLINPSDEAVSTEVRMITDAARHKLLVLTGQCFENTGELILQSGSFSFQNFIEIF
TDQEI GELLSTTHPANKASLTLCPEEGDWKNSNLDNRNLQDFINIKLNSASILPEMEGLSEFTEYLSESVEVPS
PFDILEPPTSGGFLKLSKPCCYIFPGGRGDSALFAVNGFNMLINGGSEKSCFWKLIRHLDVRVDSILLTHIGDDN
LPGINSMLQRKIAELEEEQSQGSTTNSDWMKNLISPDLGVVFLNVPENLKNPEPNIKMKRSIEEACFTLQYLNKL
SMKPEPLFRSVGNTIDPVILFQKMGVGKLEMYVLNPVKSSKEMQYFMQOWTGTNKDKAEFILPNGQEVLDLPISYL
TSVSSLIVWHPANPAEKIIRVLFPGNSTQYNILEGLEKLKHLDFLKQPLATQKDLTGQVPTPVVKQTKLKQRADS
RESLKPAAKPLPSKSVRKESKEETPEVTKVNHVEKPPKVESKEKVMVKDKPKVTETKPSVTEKEVPSKEEPSV
KAEVAEKQATDVKPKAAKEKTVKKEKVKPEDKKEEKEKPKKEVAKKEDKTPIKKEEKPKKEEVKKEVKEIKKE
EKKEPKKEVKKETPPKEVKKEVKKEEKEVKKEEKEPKKEIKKLPKDAKKSSTPLSEAKKPAALKPKVPKKEESV
KKDSVAAGKPKEKGKIKVIKKEGKAAEAVAAVGTGATTAAVMAAAGIAAIGPAKELEAERSLMSSPEDLTKDFE
ELKAEVDVTKDIKPQLELIEDEEKLKETEPVEAYVIQKEREVTKGPAESPDEGITTTTEGECEQTPPEELEPVE
KQGVDDEKFEDEGAGFEESSETGDYEEKAETEEAEEPEEDGEEHVCSASKHSPTEDDEESAKAEADAYIREKRE
SVASGDDRAEEDMDEAIEKGEAEQSEEEADEEDKAEDAREEEYEPEKMEAEYVMAVVDKAAEAGGAEQYGFILT
TPTKQLGAQSPGREPASSIHDETLPGGSESEATASDEENREDQPEEFTATSGYTQSTIEISSEPTPMDEMSTPRD
VMSDETNNETESPSQEFVNITKYESSLYSQEYSKPADVTPLNGFSESGKTDATDGKDYNASASTISPPSSMEED
KFSRSALRDAYCSEVKASTTLDIKDISAVSSEKVSPPSKPSLSPSPSPLEKTPLGERSVNFSLTPNEIKVSAE
AEVAPVSPEVTQEVVEEHCA SPEDKTLLEVVSPPSQSVTGSAGHTPYQSPTEKSSHLPTIEVKPPAVPVSEFES
DAKDENERASVSPMDEPVPDESPIEKVLSPLRSPPLIGSESAYESFLSADDKASGRGAESPFEKSGKQGSQPDQ
VSPVSEMTSTSLYQDKQEGKSTDFAPIKEDFGQEKKTDDVEAMSSQPALALDERKLGDVSPQTQIDVSQFGSFKED
TKMSISEGTVSDKSATPVDEGVAEDTYSHMEGVASVSTASVATSSFPETTTDDVSPSLHAEVGSHPHSTEVDDSL
VSVVQTPTTTFQETEMSPSKEECPRPMSISPPDFSPKTAKSRTPVQDHRSEQSSMSIEFGQESPEQSLAMDFSRQS
PDHPTVGAGVLHITENGPTVDYSPSDMQDSSLSHKIPPMEEPSYTQDNDLSELISVSQVEASPSTSSAHTPSQI
ASPLQEDTLSDVAPPDMSLYASLTSEKVQSLEGEKLSPKSDISPLTPRESSPLYSPTFSDSTSAVKEKTATCHS
SSSPPIDAASAEPYGFRAVLFDTMQHHLALNRDLSTPGLEKDSGGKTPGDFSYAYQKPEETTRSPDEEDYDYES
YEKTRTSDVGGYYYEKIERTTKSPSDSGYSYETIGKTTKTPEDGDYSYIEIEKTRTPPEEGGYSYDISEKTTSP
PEVSGYSYEKTERSRLRDDISNGYDDSEDGGHTLGDPSYSYETTEKITSFPESEGYSYETSTKTRTPDTSTYC
YETAEKITRTPQASTYSYETSDLCYTAEKKSPSEARQDVLDCLVSSCEYKHPKTELSPSFINPNPLEWFASEEPT
EESKPLTQSGGAPPPPGGKQGRQCDETPPTSVSESAPSQTDSVPPETECP SITADANIDSEDESEIPTDK
TVTYKHMDPPPAPVQDRSPSPRHPDVSMVDPEALAEQNLGKALKKDLKEKTKTKKPGTKTKSSSPVKKSDGKSK
PLAASP KPAGLKESD KVS RVASPKKESVEKAAKPTTTPEVKAARGEKDKETKNAANASASKSAKTATAGPGT
TKTTKSSAVPPGLPVYLDLCYIPNHSNSKNVDVEFFKRVRSSYYVVS GNDPAAEEPSRAVL DALLEGKAQWGSNM
QVTILIPTHDSEVMREWYQETHEKQQDLNIMVLASSSTVVMQDESFPACKIEL

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FIGURE 956

ATATACATATATGTATATATATGCACATATATATATGTATTTAAAAAATCAAAACAAAAAAAACTCATTTATA
CCTGTGTATTTTTTAAAGCTACAATCTGTTCAATGTTTTTAAATCTGTTTATATGACATTGTTAAAATAAAGT
TGGTCTTTTGACGAGAGGGAGGATGTCACGGTCAGTTGTAACCTTGCCTTCACAAGGCAACTGGGGTGGGGGGTG
GGGGTAGTGTGCCTCCTTGACATTCGTTCAAGTTATAGATTCAATGGAGCTATGTCTTGTTTTAAGTTGCTTTA
ATGCATTGTATTAGATCTTCAAACAGAATAAAGGTTGTTTTGAAACTGACAGT

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FIGURE 957

IYIYVYICTYIYVFKKIKTKKNSFIPVYFLKLQSVQCF

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FIGURE 958

TACAACCAGGCTCAACTGTTGTCATGGTAGCAGATTTGCAAACATGAGTGCTGAGGGGTACCAGTACAGAGCGCTG
TATGATTATAAAAAGGAAAGAGAAGAAGATATTGACTTGCACTTGGGTGACATATTGACTGTGAATAAAGGGTCC
TTAGTAGCTCTTGGATTTCAGTGATGGACAGGAAGCCAGGCCTGAAGAAATTGGCTGGTTAAATGGCTATAATGAA
ACCACAGGGGAAAGGGGGGACTTTCCGGGAACCTTACGTAGAATATATTGGAAGGAAAAAATCTCGCCTCCCACA
CCAAAGCCCCGGCCACCTCGGCCTCTTCTGTTGCACCAGGTTCTTCGAAAACCTGAAGCAGATGTTGAACAACAA
GCTTTGACTCTCCCGGATCTTGCAGAGCAGTTTGCCCTCTGACATTGCCCGCCTCTTCTTATCAAGCTCGTG
GAAGCCATTGAAAAGAAAGGTCTGGAATGTTCAACTCTATACAGAACACAGAGCTCCAGCAACCTGGCAGAAATTA
CGACAGCTTCTTGATTGTGATACACCTCCGTGGACTTGGAATGATCGATGTGCACGTTTTGGCTGACGCTTTC
AAACGCTATCTCTGGACTTACCAAATCCTGTCTTCCAGCAGCCGTTTACAGTGAAATGATTTCTTTAGCTCCA
GAAGTACAAAGCTCCGAAGAATATATTGAGCTATTGAAGAAGCTTATTAGGTCGCCTAGCATACCTCATCAGTAT
TGGCTTACGCTTCAGTATTTGTTAAAAACATTTCTTCAAGCTCTCTCAAACCTCCAGCAAAAATCTGTTGAATGCA
AGAGTACTCTCTGAAATTTTCAGCCCTATGCTTTTCAGATTCTCAGCAGCCAGCTCTGATAATACTGAAAACCTC
ATAAAAGTTATAGAAATTTTAATCTCAACTGAATGGAATGAACGACAGCCTGCACCAGCACTGCCTCCTAAACCA
CCAAAACCTACTACTGTAGCCAACAACGGTATGAATAACAATATGTCCTTACAAAATGCTGAATGGTACTGGGGA
GATATCTCGAGGGAAGAAGTGAATGAAAACTTCGAGATACAGCAGACGGGACCTTTTTGGTACGAGATGCGTCT
ACTAAAATGCATGGTGATTATACTCTTACACTAAGGAAAGGGGAAATAACAAATTAATCAAAATATTTTCATCGA
GATGGGAAATATGGCTTCTCTGACCCATTAACCTTCAGTTCGTGTGGTTGAATTAATAAACCCTACCGGAATGAA
TCTCTAGCTCAGTATAATCCCAAATTGGATGTGAAATTACTTTATCCAGTATCCAAATACCAACAGGATCAAGTT
GTCAAAGAAGATAATATTGAAGCTGTAGGGAAAAAATTACATGAATATAACACTCAGTTTCAAGAAAAAGTCGA
GAATATGATAGATTATATGAAGAATATACCCGCACATCCAGGAAATCCAAATGAAAAGGACAGCTATTGAAGCA
TTTAATGAAACCATAAAAATATTTGAAGAACAGTGCCAGACCCAAGAGCGGTACAGCAAAGAATACATAGAAAAG
TTTAAACGTGAAGGCAATGAGAAAGAAATACAAAGGATTATGCATAATTATGATAAGTTGAAGTCTCGAATCAGT
GAAATTATTGACAGTAGAAGAAGATTGGAAGAAGACTTGAAGAAGCAGGCAGCTGAGTATCGAGAAATTGACAAA
CGTATGAACAGCATTAAACCAGACCTTATCCAGCTGAGAAAGACGAGAGACCAATACTTGATGTGGTTGACTCAA
AAAGGTGTTCCGGCAAAAGAAGTTGAACGAGTGTTTGGGCAATGAAAACACTGAAGACCAATATTTCACTGGTGGAA
GATGATGAAGATTTGCCCCATCATGATGAGAAGACATGGAATGTTGGAAGCAGCAACCGAAACAAAGCTGAAAAC
CTGTTGCGAGGGAAGCGAGATGGCACTTTTCTTGTCGGGAGAGCAGTAAACAGGGCTGCTATGCCTGCTCTGTA
GTGGTGGACGGCGAAGTAAAGCATTGTGTCATAAACAACAGCAACTGGCTATGGCTTTGCGAGCCCTATAAC
TTGTACAGCTCTCTGAAAGAAGTGGTGCTACATTACCAACACACCTCCCTTGTGCAGCACAACGACTCCCTCAAT
GTCACACTAGCCTACCCAGTATATGCACAGCAGAGGCGATGAAGCGCTTACTCTTTGATCCTTCTCCTGAAGTTC
AGCCACCCTGAGGCCTCTGGAAAGCAAAGGGCTCCTCTCCAGTCTGATCTGTGAATTGAGCTGCAGAAACGAAGC
CATCTTTCTTTGGATGGGACTAGAGCTTTCTTTACAAAAAAGAAGTAGGGGAAGACATGCAGCCTAAGGCTGTA
TGATGACCACACGTTCTTAAGCTGGAGTGCTTATCCCTTCTTTTTCTTTTTTTCTTTGGTTTAAATTTAAAGCCAC
AACCACATACAACACAAAGAGAAAAAGAAATGCAAAATCTCTGCGTGCAGGGACAAAGAGGCCTTTAACCATGG
TGCTTGTTAATGCTTTCTGAAGCTTTACCAGCTGAAAGTTGGGACTCTGGAGAGCGGAGGAGAGAGAGGCAGAAG
AACCCTGGCCTGAGAAGGTTTGGTCCAGCCTGGTTTAGCCTGGATGTTGCTGTGCACGGTGGACCCAGACACATC
GCACTGTGGATTATTTTCAATTTTGTAAACAAATGAACGATATGTAGCAGAAAGGCACGTCCACTCACAAGGGACGCT
TTGGGAGAATGTCAGTTCATGTATGTTTCAAGAAATCTGTCTATAGAAAGTGCCAGAAAGTGTTTAACTTGTC
AAAAACAAAAACCCAGCAACAGAAAAATGGAGTTTGAAAAACAGGACTTAAATGACATTCAGTATATAAAATAT
GTACATAATATTGGATGACTAACTATCAAATAGATGGATTGTATCAATACCAATAGCTTCTGTTTGTGTTTGC
TGAAGGCTAAATTCACAGCGCTATGCAATTCTTAATTTTCATTAAAGTTGTTATTTTCAGTTTAAATGTACCTTCA
GAATAAGCTTCCCCACCCAGTTTTTGTGTTGTTGAAAATATTGTTGTCCCGGATTTTGTAAATATTCATTTTTG
TTATCCTTTTTTAAAAATAAATGTACAGGATGCCAGTAAAAAATAATGGCTTCAGAATTAAACTATGAAATA
TTTTACAGTTTTTCTGTACAGAGTACTTGCTGTTAGCCCAAGGTTAAAAAGTTCATAACAGATTTTTTTTGGAC
TGTTTTGTTGGCAGTGCCTGATAAGCTTCAAAGCTGCTTTATTCAATAAAAAAACCCTGAATTCAGTGG

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FIGURE 959

MSAEGYQYRALYDYKKEREEDIDLHLGDILTVNKGSLVALGFSQGGEARPEEIGWLNNGYNETTGERGDFPGTYVE
YIGRKKISPPTPKPRPPRPLPVAPGSSKTEADVEQQALTLPDLAEQFAPPDIAPPLLIKLV EAEKKGLECSTLY
RTQSSSNLAELRQLLD CDTPSV DLEMIDVHVLADAFKRYLLDLNPVIPA AVYSEMISLAPEVQSSE EYIQLLKK
LIRSPSIPHQYWLTLQYLLKHFFKLSQTSSKNLLNARVLSEIFSPMLFRFSAASSDNTENLIKVIEILISTEWNE
RQPAPALPPKPPKPTTVANNGMNNMNSLQNAEWYWGDISREEVNEKL RDTADGTFLVRDASTKMHGDYTLTLRKG
GNNKLIKIFHRDGKYGFS DPLTFSSVVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLH
EYNTQFQEK SREYDRLYEEYTRTSQEIQMKRTAIEAFNETIKIFEEQCQTQERY SKEYIEKFKREGNEKEIQRIM
HNYDKLKSRISEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGV RQKKLNEWLGN
ENTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVDGEVKHCVINKT
ATGYGFAEPYNLYSSLKELVLHYQHTSLVQHND SLNVTLAYPVYAQQRR

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FIGURE 960

GCTCGGAGCCCGGAGCGTGCCTCGGCGGCCTGTCGGTTTTTCACCATGGGAGCAGCTGAGCTCAGCAAACACCCGCT
TCGCCTTGACCTGTTTCCTGGCGTTGAGTGAGAACAATCCGGCTGGAAACATCTTCATCTCTCCCTTCAGCATTT
CATCTGCTATGGCCATGGTTTTTCTGGGGACCAGAGGTAACACGGCAGCACAGCTGTCCAAGACTTTCCATTTCA
ACACGGTTGAAGAGGTTCAATTCAAGATTCCAGAGTCTGAATGCTGATATCAACAAACGTGGAGCGTCTTATATTC
TGAAACTTGCTAATAGATTATATGGAGAGAAAACCTTACAATTTCCCTTCCTGAGTTCTTGTTTTCGACTCAGAAAA
CATATGGTGCTGACCTGGCCAGTGTGGATTTTCAGCATGCCTCTGAAGATGCAAGGAAGACCATAAACAGTGGG
TCAAAGGACAGACAGAAGGAAAAATTCCGGAAGTGTGGCTTCGGGCATGGTTGATAACATGACCAAACCTTGTGC
TAGTAAATGCCATCTATTTCAAGGGAAACTGGAAGGATAAATTCATGAAAGAAGCCACGACGAATGCACCATTCA
GATTGAATAAGAAAGACAGAAAAACTGTGAAAATGATGTATCAGAAGAAAAAATTTGCATATGGCTACATCGAGG
ACCTTAAGTGCCGTGTGCTGGAAGTGCCTTACCAAGGCGAGGAGCTCAGCATGGTCATCTCTGCTGCCGGATGACA
TTGAGGACGAGTCCACGGGCCTGAAGAAGATTGAGGAACAGTTGACTTTGGAAAAGTTGCATGAGTGGACTAAAC
CTGAGAATCTCGATTTTCATTGAAGTTAATGTCAGCTTGCCCAGGTTCAAACCTGGAAGAGAGTTACACTCTCAACT
CCGACCTCGCCCGCCTAGGTGTGCAGGATCTCTTTAACAGTAGCAAGGCTGATCTGTCTGGCATGTCCAGGAGCCA
GAGATATTTTTATATCAAAAATTGTCCACAAGTCATTTGTGGAAGTGAATGAAGAGGGAACAGAGGCGGCAGCTG
CCACAGCAGGCATCGCAACTTTCTGCATGTTGATGCCCGAAGAAAATTTCACTGCCGACCATCCATTCCTTTTCT
TTATTCGGCATAATTCCCTCAGGTAGCATCCTATTCTTGGGGAGATTTTCTTCCCCTTAGAAAGAAAGAGACTGTAG
CAATACAAAAATCAAGCTTAGTGCTTTATTACCTGAGTTTTTAATAGAGCCAATATGCTTTATATCTTTACCAAT
AAAACCACTGTCCAGAAAAA

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FIGURE 961

MEQLSSANTRFALDLFLALSENNPAGNIFISPFSSISSAMAMVFLGTRGNTAAQLSKTFHFNTVEEVHSRFQSLNA
DINKRGASYILKLANRLYGEKTYNFLPEFLVSTQKTYGADLASVDFQHASEDARKTINQWVKGQTEGKIPELLAS
GMVDNMTKLVLVNAIYFKGNWKDKFMKEATTNAPFRLNKKDRKTVKMMYQKKKFAYGYIEDLKCRVLELPYQGEE
LSMVILLPDDIEDESTGLKKIEEQLTLEKLHEWTKPENLDFIEVNVSLPRFKLEESYTLNSDLARLGVQDLFNSS
KADLSGMSGARDIFISKIVHKSFVEVNEEGTEAAAATAGIATFCMLMPEENFTADHPFLFFIRHNSSGSILFLGR
FSSP

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FIGURE 962A

CCACGCGCGCGCCGCTCGGTGCAGACCATGAATTACGTGGGGCAGTTAGCCGGCCAGGTGTTTGTACCCGTGAA
GGAGCTCTACAAGGGGCTGAATCCCGCCACACTCTCAGGGTGCATTGACATCATTGTTCATCCGCCAGCCCAATGG
AAACCTCCAATGCTCCCCCTTTCCACGTCCGCTTTGGGAAGATGGGGGCTCTGCGCTCCCGAGAGAAAAGTGTTGA
CATAGAAATCAATGGGGAATCTGTGGATTGTCATATGAAATTGGGAGATAATGGAGAAGCATTTCCTGTTCAAGA
AACAGATAATGATCAGGAAGTTATCCCTATGCACCTGGCCACCTCCCCATCCTGTTCAGAAAGGAGCTTCGAGAAT
GGAATGCCAGCTGAAAAGGGGCTCTGTGGACAGGATGAGAGGCCTGGACCCCAGCACGCCAGCCCAAGTGATCGC
TCCCAGCGAGACGCCGTCAAGCAGCTCTGTAGTAAAGAAGAGAAGAAAAAGGAGGAGAAAGTCACAGCTGGACAG
CCTGAAGAGAGATGACAACATGAACACATCTGAGGATGAGGACATGTTCCCATCGAGATGAGCTCGGATGAGGC
CATGGAGCTGCTGGAGAGCAGCAGAACTCTTCCTAATGATATACCTCCATTCCAAGATGATATTCCTGAGGAAAA
CCTCTCCCTGGCTGTGATTTACCCCTCAGTCAGCCTCATACCCTAATTCCGATAGAGAGTGGTCACCCACTCCCAG
TCCTTCCGGTTCCCGACCTTCAACACCTAAAAGTGATTGAGAATTGGTCAGCAAGTCCACGGAAGGACAGGGCA
GAAGAACCCAGAAATGCTTTGGCTGTGGGAGAGCTGCCGAGGCTGCTAAGTCTTCTTCTCCACACAAGATGAA
AGAGTCCAGCCATTGAGCAGTAGAAAAATTTGTGATAAAAGTCACTTTCAGGCCATTACAGCGAATCTTCAGA
CACTTTTAGTGACCAATCGCCAACCTCTGGTCGGTGGGGCACTTTTGACCAGAACAAGCCTCAGACAGAAATGCA
GTTTGTGAATGAAGAAGACCTGGAGACCTTAGGAGCAGCAGCGCCACTCTTGCCCATGATCGAGGAGCTCAAACC
CCCCTCTGCCAGTGTAGTCCAGACAGCAAACAAGACGGATTCTCCTTCCAGGAAAAGAGATAAACGAAGCCGACA
TCTTGGTGCTGACGGCGTCTACTTGGATGACCTCACAGACATGGATCCTGAAGTGGCGGCCCTGTATTTTCCCAA
AAACGGAGATCCTTCCGGACTCGCAAAACATGCAAGCGACAACGGAGCCCGGTGAGCCAACAGTCCCCGCAGTC
GGTGGGCAGCTCGGGCGTGGACAGTGGCGTGGAGAGCACCTCGGACGGGCTGAGGGACCTCCCTTCCATCGCCAT
CTCCCTCTGCGGGGCTCAGCGACCACCGGGAGATCACGAAAGATGCATTCTGAGCAAGCTGTGTTCATATCA
ACAGTTTGTGGACAACCCCGCTATTATCGATGACCCCAATCTCGTGGTAAAGATTGGGAGTAAATATTATACTG
GACAACAGCAGCACCCCTCCTCCTGGCAATGCAGGCCTTCCAGAAACCTTTGCCAAAGGCCACTGTGGAATCTAT
CATGAGGGATAAAATGCCCAAAAAGGGAGGAAGATGGTGGTTTTTCATGAGGGGAAGAAACACCACAATCAAGGA
GGAAAGTAAGCCAGAGCAGTGCTTGGCTGGCAAGGCCCATAGCACCGGAGAGCAACCGCCGAGCTCAGCTTGGC
CACCAGGGTAAAGCATGAATCATCTCCAGTGATGAGGAGCGCGCAGCTGCCAAGCCATCAAACGCAGGCCACCT
CCCTCTTCTGCCTAATGTGAGCTACAAGAAGACTCTCCGGCTGACTTCCGAGCAGCTTAAAAGCTTGAAGTTGAA
GAATGGCCCCAACGACGTGGTTTTTCAGTGTACCACGCAGTACCAAGGCACGTGCCGCTGTGAGGGCACCATCTA
TCTGTGGAACCTGGGATGATAAAGTCATCATTCTGTATATTGATGGGACAATTACCAGATCAGATACTCTTGGCCA
CATTTTGGCCACCCTTGGGAAGGATTGGACCCATCAGGGCATCGCTAAGCTGTACCATAAAGTGAGCCAGAATGG
ATATAAATTTCTCTACTGTTCTGCCCGTGCCATCGGGATGGCGGACATGACGCGGGGCTACCTGCACTGGGTCAA
CGAGAGGGGCACGGTGCTGCCCCAGGGGCCCCCTGCTGCTGAGTCCCAGCAGCCTCTTCTGCTGCCCTGCACAGAGA
AGTGATTGAAAAGAAGCCAGAAAAAGTTTAAAGTCCAGTGTTTGACAGACATCAAAAACCTGTTTTTCCCAACAC
AGAACCCTTTTATGCTGCTTTTGGAAACCGACCAGCTGATGTGTATTATACACAAGCAAGTAGGAGTGTCTTTGAA
TAGAATATTTACCGTCAACCCATAAAGGAGAGCTGGTACAGGAACATGCAAAGACCAACATCTCTTCGTATGTGAG
ACTCTGTGAAGTAGTCGACCACGTTTTTCCCGTTGCTGAAAAGAAGCCATTCTTCAGACTTCCCTGTTTCGGATAC
CTTCAGTAACCTTACCTTTTGGAGAGAGCCACTGCCACCTTTTGAAAACCAGGACATTCTGCTGCCTCAGCGTA
AAATGTCCCAAGCAGCCTCTTGCCAGCAGTGCAGAGCCTGGTTGTACCCATTAAAGGATAGGTCTCCCCGGAGT
GCACAGCTCCACCTGGGAGCCTGGCGCGTCATCATTGGCCTGACAGCAGAGAGAATTGAGAAGCATTCTCCCCCT
GCCCCACCCCGGGGCTGACATTTCTAAGCAAGATAGGAAGGGAGCACTTTCTAGGCTAGGAGTTGGGTGCATTTG
TACCGTGAAAAGCATTCTCAGTTGTGGCTTAATGCCAGTTACGACGCTGCCTTTCCGGCCTGCTCCAGCAAGTA
GCTACTGGTTACAGTGCAGTTTGGGGCTGTGAAACCTAGGCAGAAGGCGGCTGTCTGAGGGCTGTCCCCGCCAG
GACAGGGTCAATCGAGGAATGCCAGATGTGCACGGTTTTTGGCAAAGTAGGGGGCACATTTCCATTATAGCAATG
TTAGTGCCACCACCTTCTGAACACAGTGGGGAGGGCTGTGAAGGCTCATGTGACCTGGATCTGAGGTCTCTGATA
GAAATCTGGACGCCACCGGGTCCAGGCCTGGCCTCAGACTTGGCCTTGTGGATGGGCCCCCTTACAGTATTTGCTG
ACTAGTCTCATTTTTAGGTGATAAGTTTTCTTTAATTCCTTTGGTTAAAGATAGTCTATTTTCATTGGCATATCT
CCCCCAGTTTTTGTGGCTCAAGGCTGGAATATTTATGCCCTTAATATATCTATGGCAGACATTTAAGAATGCGCT
TTATCTAGCTCATGGTAACTTTGCAACGCCTTAGATTAAATGACAGTAAATATTACTAAGGCAGTATTTTGAAT
GAGTTTGACACTGCCGGCTTCCTTCCATCCAGCGAGGTGGTGCTGACAGTGTGGACTTGAGCACACTTATGCCAA

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FIGURE 962B

ATGATAATGATACTGACTTCTGTTGGGAGCTCTCCAAAGAACTGGTTGGTTTTAAGAAAATAGTTTCAAGAAGT
TCAACTATATTCTTTTAGATATTATGTATTGTTTTACTCTGATTAGGTTACTGTGATAGGCATTTATTCATATTC
TTTCTATACCACTGTCAATTAATATATTAAAAAGATGTATGTGTTAGACTATCGAAAGGGCCTTATTCTCTCTTC
TCATAGACTGACCTTCTTTTGGAAATTTCTGAGTCATTTATTTTCCTTAGCTTTTTCCACTCAAATTAAGGGCAAG
CGAAAAAGTAATAATTTGGCATTCTTTAAGCCTACAGAATGTGATTCTTTCACTTGTTTTATTACACTGGCTCGTG
GACAGAACAATTTGAAAAGTGAAAGAATTATTTTGGTAAAAGATTTTGCTTTACTTTTTCGAAGCATTATTTTTTT
AAAGAGTGTTTTACTCCAACGATTGAAACATTTTCCTATTTAAATTTTCATCGTTAGAATCACAGGAGGCCAAAAA
TGGAACGGTTGAATGAAATTTTACTCTTTCTGTGAAAGAAAATCCACAGAGTTGTTGCCTCCGTTGTAGTTGGTG
GGCCCCGTTAGCATTGGATGCCTTTGCCAAATGGTTCATGTGGACACACAAAGGCCAAACAGATCTGCCATCGATC
GCAGATTTCTGTAGAAACACGGATGTGCATGTGCAGATTCCCTTTTGCAGGTATTAAAAATAATTAAAAATAGTC
CTGCCTGAGGTTGCAGTGAGCCGAGCTTGCACTACTGCCTCCAGCCTGGGTGACAGAGTAAGACTCCATGTCAA
AAAAAAAAAAAAAAAAAAAAAGTCCTGCCTTAACCTAACTCCTCTGCGCTTGTTCACTAGTAACCTAAAAGAGGCTA
TATTCATTCTTTATGCAATGAGGGTATTTTTGAGTGAATTTTAACTGCTCTGAACTAAGTATAAGCTCATGGGCC
TGCAAAGGTTGAGACGGTTTCTCCTTTGCACCCAGGAGGAACCTTTGGCTGCGAGAATGGGGGGATGTATCCCTCA
TGCAGTTGGCATCCAGGCAGCCCTCTGCAGCAGCACACCCTGCAGGCGGAGTTTTTCAAGGATGCAATTTTGGAT
CCCGAATTTTGATGTACCTTAAACTTCCACATCACTGCACCCTGAAACAGAGCATGCTTTCCAGAAAAGTCACACT
CTCAGATCTGTGTCAAGTTCAATGTGAGCCCTGGCAAGGCTGGCATATTAACACCTGCCTTCTGGCTTCTGAAAG
TGAGATTTGTATATGGGCTGCACTCACGCATATACGAGTTGGTTTATCTTTGTGTACATGACTATAACCCAGTGA
TGCTGAGGTCATGTGCTGGAATGCTGTATTTGGACCACACATTTCAAAGTTGCCCTATGGAAATGAATCCTACTT
AGTGACAAGTCATCAAAATGTTTGTACATGTGATGAAGACAAATATGTATACCTGGCATAGAGAAAAATATATAC
CTGGTACATTGGAGAAAAATAATTACACTTTCAAAGAGAATTCCTTTGCAATTTTATGTTTGGATCACCCTGT
AAGCACACTTTATTTGCATTTGATCTGTATTTGTATATGCTGATGCAATGATAAAAATCACTGTAATACTTCATT
GTGTTGTACTGGATGCAAAGCTAGAAAATATTGCAATAAATGAGACCGATGAAAGAC

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FIGURE 963

CTCTTCTCACATCAGCGGGTCCAGGCCCAACCGACAGACTATGGGGGCTCCTTCACCAGGCGCTGCGTGGAGTGG
CTGCTGGGCCTCTACTTCCTCAGCCACATCCCCATCACCCGTGTTTCATGGACCTGCAGGCGGTGCGTGCCGCGGAG
CTCTACCCAGTCGAGTTTAGAAACCTGCTGAAGTGGTATGCTAAGGAGTTCAAAGACCCACTGCTACAGGAGCCC
CCAGCCTGGTTTAAGTCCTTTCTGTTTTGCGAGCTTGTGTTTCAGCTGCCTTTCTTTCCATTGCAACGTATGCC
TTCCTCAAAGGAAGCTGCAAGTGGATTGGAATCCTGCAATCATCTACTCTGTTACACCATGACAACCTTAATT
CTGATACTCTCCACATTTCTGTTTGAGGATTTCTCCAAAGCCAGTGGTTTCAAGGGACAAAGACCTGAGACTTTG
CATGAACGGTTAACCCCTTGTGTCTGTCTATGCCCCCTACTTACTCATCCCATTCATACTTTTAATTTTCATGTTG
CGGAGCCCCTACTACAAGTATGAAGAGAAAAAGAAAAAATGAAGGAAACAACCACTGGCCCCAGGGTAGAGAT
GCCTACAGGGTGGTTGCTTGTGGATACATACAGGAACACTGCTCAGAACCCACGTCTTCAGCAGCATTTGAAAC
ACTGGCAGCAATGCACAAGAGCAAGATGGTGTGAGGAACCATGTCAAACCCCTCACCTTCTTCCATTTTTTTTTT
TTTTTGAGACAGTCTCACTCTGTTGCCAGGCTGGAGTAAAGGGCAGTGGCATGATCTCGGCTCACTGCAACCTCC
GCCTCCTGGGCTCAAGCCATCTTCCTTAGCCTCCCAAGTAGCTAGAATACTACAGGTGTGTACCAACACGTATGGCT
AATTTGTTTTGTTTTTTTTTGTGTGTGTGGAGACAGGGTTTTGCCATGTTGCCAGGTTGGTCTCGAACGCCTAGG
CTCAAGTGATCTGCCCACCTCAGTCTCCCTAAGTGCTGGGATTACAGACGTGAACCACTGGGCCCCAGCCCCAAACC
TTCACCTTCTAAGGGCACTGGGATGAACAGACCGATCGGCTTGAGGGTGGGCAAAGGGGTGTGGGCTAGGTTATA
AGGAAGTGGTACCAAATAACTGTGTGCTGAGTTCCACCGCAAGATTACTAAAAGCAGGACCAGACCAGAACT
GCTAAAGAACATGGCCTGTTTGACATGTTTCATGAGTCACCTGACCCACAGCATATATGCTTATGACTAAACCTC
CACTCCTGATTCTCAAGAGTGATCACCTGTCAGCAAAATGAATAGTGGGATATTTTGGGCCATTTTAAATGTGA
AATTTTGCTCTTTAATGTTAATTCAAACTATATCAATGTTTTCTTGTTCACCTCTAACCCAAGGAAAAAAG
AGAAAACATACTATGCAAAGGAAGTTTAACTTAAGTTTTCTTAAAGGTCAGCCCAACAATGACTTTCAGTCAA
ATGGATTAACTGGAAAATGTTTTGTGTTGTTGTAACAGATCATCTAGGCGAAAGTTTTTTTTGTTTGTGTTT
GCTTTTAAATTAGTTTATTTCTAAATCTTAGTCTTCCACATTTCTAGAGGCCACCTGACACAAGTCCCTGTATCT
GAAGTCTAGCATCTCAAGGCTGATCTGGAAGTGTGCTAGTATGCTCCCTAGTGGATAACTTAATCTTTAATACA
GTTCCGTCAATCCCATCTTGTTTTCAGAAGAGAAGGTGGCTACAGCCAGGCATAACTTATCCACTGTGTGCATAG
AGGGTCTCTTCACGTTGATGCTTGGCATTCATCAGCTTTCTCTAAGTCTTTGCTCAAGTTCAAGGTTAAATGA
TGTTAGACAACAGGTCCCAGTCAGTCCCCTCTATTTTCACCCATTTTGCTCACAAGCCATATTGGCCCCGATTAGT
GGTACTGTCTGACTCACGTGTGTGATCCAAATAAAGGTAGCTGCCGGGAATT

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FIGURE 964

GAAAGGACCAGCCAGGTCTGGTGTGGAGGTCCTATTTAATGAATTAGAAATTCCCGTGGAAGAATACTCCTTTGG
TAGATCAAAGATATTCATCCGAAACCCAAGAACATTATTCAAATTAGAAGACCTGAGGAAGCAACGCCTGGAGGA
CTTGGCCACTCTCATTGAGAAGATATATCGGGGGTGGAAATGCCGCACACACTTCCTGCTAATGAAAAAAGCCA
AATTGTGATTGCCGCCTGGTACAGGAGATATGCGCAACAAAAGAGGTACCAGCAGACAAAGAGTTCCGCCTTAGT
AATTCAGTCTTATATCGGGGGTGGAAAGGCTCGAAAAATTCTGCGGGAACCTGAAGCATCAAAAGCGCTGTAAGGA
AGCAGTCACGACCATTGCTGCATATTGGCATGGGACCCAGGTACGTAGAGAATACAGGAAATTCCTCAGAGCCAA
TGCTGGAAAGAAAATCTATGAGTTTACGCTTCAGAGAATTGTGCAAAAATACTTCTTGGAATGAAAAATAAGAT
GCCTTCCTTATCTCCAATAGACAAGAAATTGGCCCTCAAGACCTTACTTATTCTTGGATTCTACTCACAAGGAGCT
AAAAAGGATTTTCCACTTGTGGAGGTGTAAAAAATACAGGGACCAATTCACAGACCAGCAGAAACTTATTTATGA
AGAGAACTAGAAAGCCAGTGAACCTCTTCAAAGACAAGAAGGCTTTATACCCATCTAGTGTTGGGCAACCATTTCCA
AGGGGCTTACCTGGAAATCAACAAGAACCCCAAGTATAAGAACTCAAAGATGCCATTGAAGAAAAGATCATCAT
TGCTGAAGTCGTGAACAAAATTAACCGTGCTAATGGGAAGAGTACATCTCGGATTTTCCTCTTAACAAACAATAA
TCICCTTCTTGCTGACCAAAAGTCTGGACAAATCAAGTCAGAGGTTCCACTGGTGGATGTGACCAAGGTATCAAT
GAGCTCACAAAATGATGGCTTCTTCGCCGTCCACCTCAAAGAGGGCTCAGAAGCAGCTAGTAAAGGAGACTTTCT
CTTCAGCAGTGATCACCTGATTGAAATGGCCACCAAGCTCTATCGCACAACTCTCAGCCAAACCAACAGAAGCT
CAATATTGAGATTTCCGATGAGTTCTTGGTACAGTTCAGACAGGACAAAGTATGTGTGAAGTTTATTCAGGGAAA
CCAGAAAAATGGGAGTGTCCTAACATGTAAACGAAAAACAACCGTCTCCTTGAAGTTGCTGTCCCTTAACCTGGC
GCCTCCTCTCTACTTTTCATGGACTTGTTCCTTTGTAATAGTGCAATTTGGTTTTGTTTTATTGGGGTTCATTGT
ATGTTTGGGAATCACCAAGGCTTTTAGAGTTCTTTGGCAAAATAAAAATATTTGACTAATCAATTTTATTATT
GGAATAGTTTTAACCTTTCAAATACATGTTCTGTCTGGAGCAGGATTGTAGAACTAACAGTGTCTATTTTCAT
GTCTGATGTGTTCTTCCTTTAGTCATCATGTTAGGTCTGTGTACCCTAAATCAGCATATTACTCATAAATCATT
ATTAATATAAGCATAGGAAATGGTCTTAAAAGATACTGCATTCAATTCATCAGATATTTATTCCATGCCTACTCTA
TGCTAGGCACTGTGCTAGATGGTATGAAAACCTTATTAGGAACCTTTTTGTTTTTGGAGACCATTGCATTCTGGCTG
GTTTGTGCTGGTTTAACGACATCTAAGAAGGTTTAGAAATGGTGAGACCAAAACAATAACTGTTAATGATGGACA
GCATTATTAGGAACCTGTAGTATGATATTTAACAATATAGGCTTCAAGAAGGGCTGGTCTCAAGAGGGGGCAGA
AATGAATGACCAGGTTAAATCCCTCTACATGTGGTTTCTGTTTGAAAAAAGAAAAGTACATTTGAACAGGACT
TTTAATTTGTTTAAACTCTGGTAATTACTTGTAACAGTAGAAAATAGAAGTCATTCTTATTTTAGAAAAAGT

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FIGURE 965A

GGTGAACAGCTCAAATCCATTTTTTACATCACAGACCAAAGCCAATGGGAATCCTGCTTGTTTCGGCCCAGTTGCA
GCATGTCTCGCCACCCATTTTTCCAGCTCATTTAGCAAGTGTGTCAACTCCATTGTTGTCTCAATGGAAAAGTGT
CATAAATCCAAATATAACTTCTCAGGATAAAAATGAACAAGGTGGTATGTTATGTTCCCAAATGGAAAATTTACC
TAGTACTGCCTTGCCAGCACAAATGGAAGATCTAACCAAAACAGTTCTGCCTTTGAATATTGACAGTGGCTCAGA
TCCTTTTCCTTTCCTTTACCTGCAGAAAAGTAGTTCAATGTCTCTCTTCCCTTCACCAGCAGATAGTGGGACTAATTC
TGTTTTTTCCCAACTGGAAAATAATACAAATCATTATTCCTCACAGATTGAAGGAAACACTAATTCCTCCTTTCT
AAAGGGGGGTAAATGGTGAAAATGCAGTTTTTTCCTTACAAAGTGAATGTTGCAAATAACTTCAGTAGCACCAATGC
CCAACAGTCTGCACCTGAAAAAGTTAAAAAAGACCGTGGGCGGGGCCCAAATGGGAAGGAAAGAAAACCTAAGCA
CAACAAAAGGGCTAAATGGCCTGCAATTATCAGAGATGGGAAATTTATCTGTAGCAGGTGTTACAGGGCTTTTAC
TAATCCCAGATCACTGGGTGGGCACTTATCCAAGCGATCTTACTGTAAACCACTGGATGGAGCCGAAATTGCTCA
AGAACTTCTACAGAGTAATGGACAGCCTTCTCTTCTTGCCAGCATGATTCTCTCCACAAATGCAGTAAATTTGCA
GCAGCCACAACAATCTACCTTCAATCCAGAAGCATGTTTTAAAGATCCATCATTTCTACAGCTTCTTGCTGAAAA
TCGCTCGCCAGCATTTTTACCAAATACATTTCTCGATCTGGTGTGACTAACTTTAATACCAGTGTGAGTCAAGA
AGGTAGTGAAATTATTAAACAGGCTTTGGAACTGCTGGCATTCCCAGTACATTTGAGGGTGCCGAAATGCTTTC
TCATGTTTCAACAGGTTGTGTCTCTGATGCATCACAAGTAAATGCAACGGTGATGCCAAATCCAAGTACCACC
CCTGTTGCACACTGTATGCCATCCAAACACCTTGCTGACCAACCAGAATAGGACGTCAAACCTCCAAAACCTTCCTC
CATTGAGGAATGTAGCAGCTTGCTGTTTTTCCAACGAATGACTTACTACTGAAGACTGTTGAAAATGGTTTTGTG
CTCTAGTTTCATTTCTAATTCTGGTGGGCCATCACAATTTTACCAGTAACAGTTCTCGTGTCTTCTGTTATAAG
TGGTCTTCAGAACACAAGATCCAGTCATTTAAATAAAAAGGGAACAGTGCTTCTAAGAGAAGAAAAGAAAGTTGC
TCCTCCACTAATTGCACCTAACGCTTCCCAAACCTTGTTAACAAGTGACTTAACAACAATGGGACTCATAGCAAA
GAGTGTGAAATCCCACTACTAACCTTCATTCAAATGTAATTCCAACCTGTGAACCTCAGAGTTTGGTGAAAAA
TCTAACACAGAAATTAAATAATGTAAACAATCAGTTATTTATGACTGATGTAAAAGAGAATTTCAAAAACAGTCT
TGAGTCCCATACAGTGTTAGCCCCCTTTAACATTAAAACTGAAAATGGTGATTCCCAAATGATGGCTTTGAATTC
ATGCACAACCTTCAGTAAATTTCTGATTTGCAGATTTCTGAAGACAATGTTATACAAAACCTTTGAAAAGACTCTTGA
AATTATTAAAAACCTGCTATGAATTTCTCAAATACTTGAGGTAAAAAGTGGATCTCAGGGTGCTGGTGAAAACCTTCACA
AAATGCTCAAATAAATTATAACATTCAGCTTCCTTCAGTAAACACTGTGCAAAATAACAAATTACCCGATTCTTC
TCCGTTTTCTCCTTTTATAAGTGTGATGCCAACAAAAAGTAACATTCCTCAGTCTGAAGTATCACATAAGGAGGA
TCAAATACAGGAAATTTTGAAGGCTTACAGAAATTAATAATTAGAAAATGACCTATCCACTCCAGCATCCCAATG
TGTACTGATAAATACATCAGTGACACTGACTCCCACGCCTGTTAAATCAACTGCAGATATCACAGTTATTTCAGCC
AGTTTCTGAAATGATAAACATTCAATTTAATGACAAAGTTAATAAACCTTTTGTGTGTCAAAACCAAGGCTGTAA
CTACAGTGCTATGACAAAGGATGCACATTTTAAGCACTATGGTAAAATTCATCAATACACTCCAGAAATGATTCT
TGAAATTAAGAAGAATCAATTGAAATTTGCTCCCTTTAAATGTGTAGTACCTACATGTACAAAAACATTTACAAG
AAATTCTAACCTCCGGGCACACTGTGAGTTGGTGCATCATTTTACAACCTGAAGAAATGGTAAAGTTAAAAATTAA
AAGGCCTTATGGAAGAAAATCTCAGAGTGAAAATGTGCCGGCCTCAGGAAGTACACAAGTGAAAAAACAGCTAGC
TATGACAGAGGAAAAATAAAAAGGAATCTCAGCCTGCTTTAGAATTGAGAGCAGAGACCCAAAATACCCACAGTAA
TGTAGCAGTGATCCCAGAAAAACAACCTTATAGAAAAAAAAGTCTGACAAAACAGAAAGTTCTTTACAAGTGAT
TACAGTTACTTCAGAACAATGTAATACAAATGCACTCACAACACACAAACCAAGGACGGAAGATTAGGAGGCA
TAAAAAAGAAAAGGAGGAGAAAAAACGAAAGAAGCCAGTTTCCCAATCCCTTGAGTTTCCAACAAGATACAGTCC
TTACAGACCTTATCGATGTGTTTACCAGGGATGCTTTGCTGCCTTTACGATACAGCAAAATTTGATTCTCCATTA
CCAGGCTGTACACAAATCAGATCTACCTGCATTTTACGAGAGGTGCAAGAGGAAAGTGAAGCTGGTAAAGAAAG
TGAAGAACTGAACTAAACAACTTTGAAAGAATTTGATGTGAGGTAAGTGACTGTTCTCGAATTTTCCAAGC
AATTACTGGCCTAATACAACTACATGAACTTCATGAAATGACTCCTGAAGAAATTTGAAAGTATGACTGCTTC
AGTGGATGTTGGGAAGTTTCCATGTGACCAGTTAGAGTGTAATCTTCATTTACTACATATTTGAACTATGTTGT
TCATCTAGAGGCAGACCACGGGATTGGACTAAGGGCAAGTAAACAGAAGAAGATGGTGTATACAAATGTGATTG
TGAAGGCTGTGACCGTATATATGCAACCCGGTCAATCTCCTCCGACACATTTTTAATAAGCATAATGACAAACA
TAAGGCTCATTTGATTTCGTCCAAGAAGATTAACACCAGGCCAGGAAAATATGTCAAGCAAGGCCAAACCAAGAAAA
ATCAAAGTCTAAACATCGGGGGACGAAGCACAGCAGATGTGGAAGGAAGGAATAAAAAATGCCCAAGACCAAACG
AAAGAAAAAAAATAATTTAGAAAAACAAGATGCAAGATTGTGCAGATTGAAGAAAAATAAGCCTTATTCTCTGAA

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FIGURE 965B

ACGTGGGAAGCATGTATATTCTATAAAGGCTAGAAATGATGCCCTGTCTGAGTGTACAAGCAGATTTGTAACCCAA
GTATCCATGTATGATAAAGGGATGTACTTCAGTTGTTACAAGTGAAAGCAATATAATTAGACATTATAAGTGCCA
TAAATTATCTAAGGCATTTACATCACAAACACCGAAATCTTCTTATTGTATTCAAACGGTGTGCAACTCACAAAGT
AAAGGAAACGTCTGAGCAAGAAGGTGCTAAGAATGATGTGAAAGATTCTGACACGTGTGTATCAGAGAGCAATGA
TAATTCAAGAACAACAGCTACAGTTTCACAAAAGGAAGTTGAAAAAATGAAAAAGATGAAATGGATGAACTAAC
AGAATTGTTTATTACAAAATTAATAAATGAAGATAGCACAAAGTGTAGAGACCCAAGCTAATACTTCTTCAAATGT
AAGTAATGATTTTCAGGAAGATAACCTCTGCCAGTCAGAAAGACAAAAGCAAGTAATTTGAAGAGAGTTAATAA
GGAAAAAATGTCTCACAAAATAAAAAAGGAAAGTTGAAAAAGCTGAACCAGCATCAGCAGCTGAGTTAAGTAG
CGTGCGTAAAGAAGAAGAACTGCTGTTGCCATTCAAACCATTGAGGAGCATCCTGCATCTTTTTGACTGGAGCTC
TTTTAAGCCAATGGGATTTGAAGTATCATTTCTGAAGTTTCTTGAGGAGTCTGCAGTGAAGCAGAAGAAAAATAC
TGACAAAGACCATCCGAATACTGGAAAACAAAAAGGATCCCATTCAAATTCAGAAAAAATATTGATAAGACTGC
TGTGACTAGTGGAAATCATGTATGTCTTGTAAAGAAAGCGAAACGTTTGTACAGTTTGCCAATCCATCACAGCT
TCAGTGCAGTGATAATGTAAAAATTGTTTGTAGACAAGAATCTTAAAGATTGCACTGAGCTTGTCTTAAAGCAACT
TCAGGAAATGAAACCTACCGTCAGTCTGAAAAAAGCTTGAAGTACATTCAAATGATCCAGATATGTCTGTTATGAA
AGATATCAGTATAGGTAAAGCCACAGGCAGAGGTGAGTACTGATAATTAATGTAGTATAAATACATCATTACCA
TTTTATTTTAAATAGGAAGCCATCAAGCATGCTAGAATTGTGAACTTTCATTATATTTTTTTGTTGTTGACATG
AATTAACCTGGCCAAAAACAAAAAGAAAAAACAATGACATTTGTCATGTAAACTTTTTTTTATCCCTATG
GGACTTGAGGAACAGAATCAGTACTTCAGTTATTGTAAATAGTGAGCTAAACCTCAAATTTCTATCACCCAGTTG
CCCTTTTCATGAATAACAATTATCTGTGTGATTGGTATGTTTCACCAGGTCACTGCTCATGTATAACAGTACT
CTTTATTTGTAGATACCTTTTTTGTATATATTTATTATTGTAAATCATGTGCTGCCACCAGCAGTCTGTAAGTCT
AAACTATTAAATGACACATTTATATTTGGAATTTTAATTTTAACTAAGCGATCAAGTTTTTTAAATTGTTCTTT
TATTGTTTTAAATTAAGAATTTTTGAACTAAAACCAGAACTCTGCCATAGTTCATTGATTTTTACATGAAACA
TTTATTTACAAGATGATATCAAGATTACTTTTCACAAAATAGGCACATTATATCAACACTTTGCTCTGCTTTGTA
AATTTGCCATCCAGGATTTTGGGGTGGTATTTCATGTGAAATTAAGCAGATTCTCTAGCAGTTTCTATAGCTAC
AGTTTTTTTTTTTCATTGCTTCTAATTGGATATAGTTACTATGAGTCCATGAAATACAATGGAAATGTGAATAAA
GAATTTACTACATTGAAGATTTTAAACATTTGGTATTAAAAAATCCTTTGTGAATGTGATAGAAAACCTAGTA
GTGTGGAGCAGTGTAATATTTGAGGTGGTGATTGTGGAAGTAGCCAGTATTGCCTTAAATAAAATCACATTTT
ATTTCTTGTTTTATACATGTGATCTTATAAAGATTTTTTGTGTTTTGTTTTGTTTTCCATTTTCTGAGATTTATAGA
TTGGTGTATAGCTTTAACTGTATAAAGTTTTGTGGAAAGATTTTTTAAACATTTTATAAATCTTAAATTTGA
TATCATCAAAGTGAGCCCATCTTGTGTTTATAAATAACAAGATCCTTAACATTTATAATTACATAGATAAAACA
CTTTCTATAAGGAAGTTGGATGTTTTGATTTTACTGTTTATAGATGTTAGATTGTACAGATTTGTCTGTATTTCT
CACCATATCTAATGATACTTTTTTCATTAGATTGGTCTTCAAGAACAGTATTAGTTATAATTATTTTGGTTATTC
AGTATATAGTTAGCTCTTACAGTTTAGCTTTATTCACCATATTTATACTGTGGATTCACAGCGAGAGGTAGAGGT
TATTCAGGAGAGTTGATGACCTTCATTTAAAGTCCAATAAATCAGTAGTAGAAACATAAGAAAAACATCTTTG
CAATATTTACTTTTGTGTTTCTGTTTGCCGTAAATAGTAACATTGTTTTTTTTTATTTTGTGTTTGTATATAAACAG
TTGCATTCACAATATTATTGGCCTGAGATATTGATGATATTGTGATGGTATGAAATGTGTACATTCCCTGTGCA
ACATCAGATTTGCAGGAAAAATGAAGCACTTACTGAAATCGCTGGTACTCTGAATAAATAAGCATGGTCAAGGAG
TGAATATTTTCTTTTGGAAATTTCTTTTAAATTTTATTATTAAAGTATTTTATTTTAGGGCCTTTTGGGTTT
TATTGAATAGTTTCACTTACCTGTTTAAAGACTTACTACCAATAAGCATAAAACCTGACACGTTAAATCCCTGCC
CTTTGGTGAGCCCACTGTTATTTATTAAAAATAAAAGTTATTTTATGGGTGATT

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FIGURE 966

VNSSNPFFTSQTKANGNPACSAQLQHVSPPIFPAHLASVSTPLLSSMESVINPNITSQDKNEQGGM LCSQMENLP
STALPAQMEDLTKTVLPLNIDSGSDPFLPLPAESSMSLFPSPADSGTNSVFSQLENNTNHYSSQIEGNTNSSFL
KGGNGENAVFPSQVNVANNFSSSTNAQQSAPEKVKKDRGRGPNGKERKPKHNKRAKWPAAIIRDGKFICSR CYRAFT
NPRSLGGHLSKRSYCKPLDGAETIAQELLQSNQPSLLASMLSTNAVNLOQPQQSTFNPEACFKDPSFLQLLAEN
RSPAFLPNTFPRSGVTNFNTSVSQEGSEIIKQALETAGIPSTFEGAEMLSHVSTGCVSDASQVNATVMPNPTVPP
LLHTVCHPNTLLTNQNRTSNSKTSSIEECSSLPVFPTNDLLLKTVENGLCSSSPNSGGPSQNFTSNSSRVSVIS
GPQNTRSSHLNKKGNSASKRRKKVAPPLIAPNASQNLVTSDLTTMGLIAKSVEIPTTNLHSNVIPTCEPQSLVEN
LTQKLNNVNNQLFMTDVKENFKTSLESHTVLAPLTLKTENGDSQMMALNSCTTSVNSDLQISEDNVIQNFECTLE
IIKTAMNSQILEVKSGSQGAGETSQNAQINYNIQLPSVNTVQNNKLPDSSPFSSFISVMPTKSNIPQSEVSHKED
QIQEILEGLQKLKLENDLSTPASQCVLINTSVTLTPVKSTADITVIQPVSEMINIQFNDKVNKPFVCQNQGCN
YSAMTKDALFKHYGKIHQYTPEMILEIKKNQLKFAPFKCVVPTCTKTFTRNSNLRAHCQLVHHFTTEEMVKLKIK
RPYGRKSQSENV PASRSTQVKKQLAMTEENKESQPALELRAETQNTHSNVAVIPEKQLIEKKSPDKTESSLQVI
TVTSEQCNTNALINTQTKGRKIRRHKKEKEEKKRKKPVQSLEFPTRYSPYR PYRCVHQGCFAAFTIQQNILILHY
QAVHKSDLPAFSAEVEEESEAGKESEETETKQTLKEFRQCQVSDCSRIFQAITGLIQHYMKLHEMTPEEIESMTAS
VDVGKFPDQLECKSSFTTYLNYVVHLEADHGIGLRASKTEEDGVYKCDCEGCDRIYATRSNLLRHIFNKHNDKH
KAHLIRPRLTPGQENMSSKANQEKSXSKHRGTHSRGKEGKMPKTKRKKNNLENKNAKIVQIEENKPYSLK
RGKHVYSIKARNDALSECTSRFVTQYPCMIKGCTSVVTSESNIIRHYKCHKLSKAFTSQHRNLLIVFKRCCNSQV
KETSEQEGAKNDVKDS DTCVSESNDNSRTTATVSQKEVEKNEKDEMDTELFI TKLINEDSTSVETQANTSSNV
SNDFQEDNLCQSERQKASNLKRVNKEKNVSQNKRRKVEKAEPASAAELSSVRKEEETAVAIQ TIEEHPASFDWSS
FKPMGF EVSFLKFLEESAVKQKNTDKDHPNTGNKKGSHSNSRKNIDKTAVTSGNHVCPCKESETFVQFANPSQL
QCSDNVKIVLDKNLKDCTELVLKQLQEMKPTVSLKKLEVHSNDPDM SVMKD ISIGKATGRGQY

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FIGURE 967

[illegible]

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FIGURE 968

MALARAWKQMSWFYYQYLLVTALYMLEPWERTVFNSMLVSIVGMALYTG YVFMPQHIMAILHYFEIVQ

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FIGURE 969A

CAACGATTTGTCTTCTCGGCTGGTCTCCCCCGGCTCTACATGTTCCCCGCACTGAGGAGACGGAAGAGGAGCCG
TAGCCACCCCCCTCCCGGCCCGGATTATAGTCTCTCGCCACAGCGGCCTCGGCCTCCCCTTGGATTTCAGACGCC
GATTTCGCCAGTGTGTTGGGAAATGGGAAGTAATGACAGCTGGCACCTGAACTAAGTACTTTTATAGGCAACACCA
TTCCAGAAATTCAGGATGAATGGGGATATGCCCCATGTCCCCATTACTACTCTTGCGGGGATTGCTAGTCTCACA
GACCTCCTGAACCAGCTGCCTCTTCCATCTCCTTTACCTGCTACAAC TACAAAGAGCCTTCTCTTTAATGCACGA
ATAGCAGAAGAGGTGAACTGCCTTTTGGCTTGTAGGGATGACAATTTGGTTTCACAGCTTGTCCATAGCCTCAAC
CAGGTATCAACAGATCACA TAGAGTTGAAAGATAACCTTGGCAGTGATGACCCAGAAGGTGACATACCAGTCTTG
TTGCAGGCCGTCTGGCAAGGAGTCCTAATGTTTTAGGGAGAAAAGCATGCAGAACAGATATGTACAAAGTGGGA
ATGATGATGTCTCAGTATAAACTTTCTCAGAATTCATGCACAGTAGTCCTGCATCTTCCAATTATCAACAAACC
ACTATCTCACATAGCCCCCTCCAGCCGGTTTGTGCCACCACAGACAAGCTCTGGGAACAGATTTATGCCACAGCAA
AATAGCCCAGTGCCTAGTCCATACGCCCCACAAAGCCCTGCAGGATACATGCCATATTTCCCATCCTTCAAGTTAC
ACAACACATCCACAGATGCAACAAGCATCGGTATCAAGTCCCATTGTTGCAGGTGGTTTGAGAAACATACATGAT
AATAAAGTTTCTGGTCCGTTGTCTGGCAATTCAGCTAATCATCATGCTGATAATCCTAGACATGGTTCAAGTGAG
GACTACCTACACATGGTGCACAGGCTAAGTAGTGACGATGGAGATTCTTCAACAATGAGGAATGCTGCATCTTTT
CCCTTGAGATCTCCACAGCCAGTATGCTCCCTGCTGGAAGTGAAGGAACCTCTAAAGGCTCAAGACCACCTTTA
ATCCTACAATCTCAGTCTCTACCTTGTTCATCACCTCGAGATGTTCCACCAGATATCTTGCTAGATTCTCCAGAA
AGAAAACAAAAGAAGCAGAAGAAAATGAAATTAGGCAAGGATGAAAAGAGCAGAGTGAGAAAGCGGCAATGTAT
GATATAATTAGTTCTCCATCCAAGGACTCTACTAACTTACATTAAGACTTTCTCGTGTAAGGTCTTCAGACATG
GACCAGCAAGAGGATATGATTTCTGGTGTGGAAAATAGCAATGTTTCAGAAAATGATATTCCTTTTAATGTGCAG
TACCCAGGACAGACTTCAAAAACACCCATTACTCCACAAGATATAAACCGCCCACTAAATGCTGCTCAATGTTTG
TCGCAGCAAGAACAACAGCATTCTTCCAGCAAATCAAGTGCCTGTTTTACAACAGAACACTTCAGTTGCTGCA
AAACAACCCAGACTTCTGTGGTACAGAATCAACAACAGATATCACAACAGGGACCTATATATGATGAAGTGGA
TTGGATGCATTGGCTGAAATTGAGCGAATAGAGAGAGAATCAGCTATTGAAAGGGAGCGCTTCTCAAAAAGAGTT
CAAGATAAAGATAAGCCTTTGAAAAAAGAAAACAAGATTCTTACCCACAGGAGGCTGGGGGTGCTACAGGAGGT
AATAGACCAGCTTCTCAGGAGACGGGTTCTACGGGAATGGGTCAAGGCCAGCATTAAATGGTTAGCATTGATCTT
CATCAGGCAGGAAGAGTGGACTCTCAGGCTTCTATACTCAGGATTCAGACTCCATAAAAAAGCCTGAAGAAATC
AAACAATGTAATGATGCACCTGTTTCTGTTCTTCAGGAAGATATTGTTGGAAGTCTTAAATCTACACCAGAAAAC
CATCTGAGACACCTAAAAAAAAGTCTGATCCTGAGCTTTCAAGAGTGAAATGAAACAAAAGTGAAAGTAGATTA
GCAGAATCTAAACCAATGAAAACCGATTGGTGGAGACAAAATCAAGTGAAAATAAGTTAGAAAATAAGTTGAG
ACCCAAACAGAAGAACTTAAACAGAATGAGAGCAGAACAACTGAATGCAAAACAAAACGAGAGCACCATAGTTGAG
CCTAAACAAAATGAAAATAGACTGTCTGACACAAAACCAAATGACAACAAAACAAAATAATGGCAGATCAGAAACA
ACAAAATCAAGGCCTGAAACCCCAAAGCAAAAGGGTGAAAGCCGGCCTGAGACTCCAAAACAAAAGAGTGATGGG
CATCCTGAAACCCCAAACAGAAAGGTGATGGAAGGCCTGAAACTCCAAAGCAAAAAGGTGAGAGCCGCCCTGAA
ACTCCAAAGCAAAAAAATGAAGGGCGACCTGAAACACCAAAACACAGGCATGACAATAGGAGGGATTCTGGAAAG
CCATCTACAGAGAAAAAACCTGAAGTGTCTAAACATAAACAGATACTAAATCTGACTCACCTCGGTTAAATCA
GAACGAGCTGAAGCCTTAAAGCAGAGACCTGATGGGCGATCTGTTTCTGAGTCACTAAGACGTGACCATGATAAT
AAACAAAAATCAGATGACAGGGGTGAATCAGAGCGACATCGAGGGGATCAGTCTAGGGTTCGAAGACCAGAAACA
TTGAGATCCTCTAGTAGAAATGAACATGGCATTAAATCTGATAGTTCAAAAACCTGATAAACTAGAACGAAAACAC
AGGCATGAATCAGGGGACTCAAGGGAAAGACCATCTTCTGGGGAACAAAATCAAGACCTGACAGTCTCTGTT
AAACAAGGAGATTCTAATAAATCAAGATCTGATAAACTTGGTTTTAAATCACCAACTAGTAAAGATGACAAAAGG
ACAGAGGGTAACAAGAGTAAAGTAGACACTAATAAAGCACACCCTGACAATAAGGCAGAATTTCCAAGTTATTTG
TTGGGGGGCAGGTCTGGTGCCTTGAAAAATTTTGTCTATCCGAAAATCAAGAGGGATAAAGATGGCAATGTTACT
CAGGAGACAAAAGAAAATGGAAATGAAAGGAGAGCCGAAAGACAAAGTAGAAAAAATAGGATTAGTTGAAGATCTA
AATAAAGGAGCTAAGCCTGTAGTTGTGCTACAAAACCTGTCTTTGGATGATGTTTCAGAACTTATTAAAGATAGA
GAGGACAAATCAAGAAGTTCCTTAAACCTATCAAGAATAAACCATCAAAGTCAAATAAAGGTAGTATAGATCAA
TCAGTGTTAAAAGAATTACCCCTGAACTCCTGGCAGAAATTGAGTCCACCATGCCACTTTGTGAACGTGTGAAA
ATGAACAAACGCAAGCGTAGCACAGTTAATGAAAAGCCAAAATATGCTGAAATCAGTTCAGATGAAGATAATGAT
AGTGATGAAGCTTTTGAATCCTCTAGGAAACGACATAAAAAAGATGATGATAAAGCTTGGGAATATGAAGAGCGT

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FIGURE 969B

GACAGAAGAAGCTCTGGGGATCATAGGAGAAGTGGCCACTCTCATGAAGGAAGAAGGAGTTCAGGTGGTGGTTCGT
TATCGAAACCGAAGTCCGTCAGATTCTGACATGGAAGATTATTCTCCTCCTCCCAGCCTTAGTGAGGTTGCTAGG
AAAATGAAGAAAAAGAAAAACAGAAGAAAAAGGAAAGCATATGAACCAAACTAACACCTGAAGAAATGATGGAC
TCTTCAACTTTTAAAGAGATTACAGCCTCAATAGAGAATATTTTGGATAATTTGGAAGATATGGATTTTACTGCG
TTTGGTGATGATGATGAAATTCCTCAGGAACTGCTCTTAGGAAAACATCAGCTTAATGAACCTTGGCAGTGAATCT
GCTAAAATAAAAGCAATGGGTATAATGGATAAGCTTTCAACTGACAAAACCTGTGAAAGTCTTAAATATCTTGGAG
AAGAATATTTCAGGATGGGTCAAAGCTTTCCACTTTGTAAATCATATAACGATACTGAAGAAGAAGAAAGGTTA
TGGAGAGACCTTATTATGGAGAGAGTTACAAAATCAGCGGATGCTTGTCTTACAACATCAACATTATGACATCC
CCTAACATGCCAAAAGCTGTGTACATTGAGGATGTAATTGAAAGAGTTATACAGTACACTAAATTTCAATTTGCAG
AATACACTTTTATCCTCAGTATGATCCTGTTTACAGATTAGATCCTCATGGAGGAGGCTTATTAAGTTCAAAGCA
AAACGGGCTAAATGTTCTACCCATAAGCAGAGAGTAATAGTAATGCTTTATAACAAAGTTTGTGACATTGTTAGC
AGCTTATCAGAATTGCTAGAGATACAACCTTCTTACAGACACAACAATTCTTCAGGTTTCATCTATGGGAATAACA
CCATTTTTTGTGGAAAATGTCAGTGAACCTACAGTTGTGTGCCATTAAGTTAGTCACTGCAGTATTCTCAAGATAT
GAAAAACATAGGCAGTTAATTTTGAAGAAAATTTTACTTCACTTGCAAGATTACCAACCAGCAAGAGGAGTTTA
AGGAACCTTCAGGTTAAACAGTAGTGATATGGATGGAGAACCTATGTATATTAGATGGTTACAGCACTGGTTTTA
CAACTTATTTCAGTGTGTGGTACACTTACCATCATCAGAGAAGGACTCTAATGCAGAAGAAGATTCAAATAAAAAA
ATTGACCAGGATGTTGTCTACTTAACCTTATGAAACAGCTATGCGAACAGCCCAAACTTCTCTCCATCTTC
CTTAAAAAATGTGGTAGTAAGCAAGGTGAAGAAGATTACAGACCACTGTTTGAAAATTTTGTTCAGACCTTCTT
TCAACAGTCAATAAGCCTGAATGGCCAGCTGCTGAACTACTCCTTAGTTTGTAGGGAGACTGTTGGTTTCATCAG
TTCAGTAACAAGTCAACAGAGATGGCTTTAAGAGTGGCATCTCTTGATTACCTTGGAACCTGTTGCTGCACGGCTA
AGAAAAGATGCTGTTACAAGCAAAATGGATCAAGGATCTATAGAACGCATTTTAAAACAGGTTTCAGGAGGGGAA
GATGAAATCCAACAATTACAAAAAGCATTGCTTGATTACTTGATGAAAACACTGAGACTGATCCTTCACTAGTG
TTTTCTCGTAAATTCTATATAGCCCAGTGGTTTTGAGACACAACCTCTGAAAACAGAAAAAGCAATGAAATCACAA
AAAGATGAAGAATCATCTGAAGGAACACATCATGCAAGGAAATTGAGACAACCTGGCCAAATTATGCATCGAGCT
GAAAACCGAAAAAAGTTTCTTAGAAGCATTATCAAACCACACCTTCTCAGTTTAGCACATTAAAGATGAACTCT
GATACTGTGGACTATGATGATGCTTGCTTGATTGTTGATACTTGGCCTCCATGAGGCCGTTTGGCCAGAGCTTT
GATATTTATTTGACACAGATCCTACGAGTTCTTGGTGAAAATGCAATTGCTGTTTGAACAAAAGCCATGAAGTGT
TTGTCTGAGGTTGTTGCTGTAGACCCAGTATTCTAGCAAGGCTTGATATGCAACGAGGTGTTTCATGGACGATTG
ATGGATAATTGCACTAGTGTCGAGAGCAGCAGTAGAATTACTAGGTCGATTTGTCCTTTGTGCGACCTCAGCTT
GCTGAACAGTATTATGATATGCTGATTGAAAGAATATTGGATACTGGTATCAGTGTGAGGAAAAGAGTAATAAAG
ATTCTCAGAGACATTTGTATTGAACAACCAACATTTCCAAAAATCACAGAAATGTGTGTAATAAATGATTCGCAGA
GTCAATGATGAAGAGGGCATTAAAGAAATTAGTAAATGAAACATTCCAGAACTCTGGTTTTACTCCAACCTCCACAC
AATGACAAAGAAGCAATGACAAGGAAAATTTTAAACATTACCGATGTGGTTGCAGCATGCAGAGATACTGGATAT
GACTGGTTTTGAGCAACTGCTTCAAACTTGTGTAAGTCCGAAGAGGATTCTCATATAAACCTGTGAAGAAAGCT
TGTACTCAACTTGTGATAACCTAGTTGAGCACATTCTTAAATATGAGGAATCTCTAGCTGACTCTGACAATAAA
GGTGTGAATTCTGGAAGATTGGTAGCTTGCATAACCACTTTGTTCTTATTACGCAAAATAAGACCCAGCTCATG
GTTAAACATGCAATGACTATGCAACCATACCTTACCCTAAATGTAGTACGCAAAATGATTTTCATGGTTATCTGC
AATGTTGCAAAAATCCTAGAGCTAGTTGTACCCTGATGGAGCATCCAAGTGAACCTTTTCTTGCCACTATTGAG
GAAGATCTAATGAAGCTCATCATCAAATATGGCATGACTGTAGTGCAACATTGTGTGAGCTGTCTTGGAGCTGTT
GTAAATAAAGTGACACAAAATTTTAAATTTGTGTGGGCTTGTTTTCAATAGATACTATGGTGCCATTTCAAATTA
AAAAGTCAACACCAAGAGGACCCAAATAACACTTCACTTCTAACAACAAACCAGCACTTCTTAGATCCCTTTTT
ACCGTTGGAGCACTATGTCGGCATTGTTGATTTGATCTGGAAGATTTTAAAGGCAACAGCAAGGTTAACATAAAA
GATAAAGTACTTGAACATTTGATGATTTTACAAAACACTCAGATGAAGAAGTACAAACAAAAGCTATCATTGGT
CTAGGATTTGCCTTTATTCAGCATCCAAGTCTAATGTTGAGCAAGAAGTGAAGAATCTATATAATAATATTTTA
TCTGATAAGAACTCCTCAGTCAATTTAAAAATACAAGTGTTAAAAAACCTCCAGACCTACCTACAAGAAGAAGAT
ACACGTATGCAGCAGGCAGATAGAGACTGGAAGAAAGTTGCAAAACAGGAAGACTTAAAGAAATGGGTGATGTT
TCCTCAGGGATGAGTAGTTCCATCATGCAGCTTTATCTCAAACAGGTGCTTGAGGCATTTTTTTCACACCCAGTCA
AGTGTACGCCACTTTGCCCTAAATGTCATTGCATTGACTCTAAATCAAGGTCTTATTTCATCCAGTTCAGTGTGTG

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FIGURE 969C

CCATATTTAATTGCTATGGGCACAGACCCAGAACCTGCTATGCGGAACAAGGCTGATCAGCAACTTGTGGAAATA
GACAAAAAATATGCTGGATTTCATTCATATGAAAGCAGTGGCTGGTATGAAGATGCTTACCAGGTACAACAGGCA
ATCAACACATGCCTAAAAGATCCTGTAAGGGGTTTCAGACAAGACGAGTCCTCTAGCGCTTTGTGTTACACCTT
TACTCCATGATCCGTGGAAACCGCCAACACAGACGAGCCTTTCTTATTTCTTTACTCAACCTCTTTGATGACACA
GCAAAACAGACGTGACTATGCTCTTGTATATAGCAGACAATCTAGCCTGTTTTCCATACCAGACACAGGAAGAG
CCGTTGTTTATAATGCATCATATAGACATTACACTCTCAGTTTCTGGTAGTAACCTACTGCAGTCATTCAAGGAG
TCTATGGTAAAGGACAAAAGGAAAGAGAGAAAATCATCACCTAGTAAGGAAAATGAGTCAAGCGACAGTGAAGAA
GAAGTTTCCAGGCCTCGGAAGTCACGGAACGTGTAGATTTCAGATTTCAGATTTCAGATTTCAGAAGACGATATAAAT
TCAGTGATGAAATGTTTGCCAGAAAATTCAGCTCCTTTAATCGAATTTGCAAATGTGTCCCAGGGTATTTTATTA
CTTCTCATGTTAAACAACATTTGAAGAATCTTTGTGGATTTTCTGATAGTAAAATTCAGAAGTACTCTCCATCT
GAATCTGCAAAAGTATATGATAAAGCGATAAACCAGAAAACAGGAGTTTCATTTTCATCCAAAACAAACACTGGAC
TTCTGCGGAGTGACATGGCTAATTCCAAAATCACAGAAGAGGTGAAAAGGAGTATAGTAAAACAGTATCTAGAT
TTCAAACCTTCTCATGGAACATCTGGACCTGATGAAGAAGAAGAAGAAGGGGAGGTTTCAGCTAGCACAAATGCT
CGGAACAAAGCAATTACCTCACTGCTTGGAGGAGGCAGCCCTAAAATAATACAGCAGCAGAGACAGAAGATGAT
GAAAGTGATGGGGAGGATAGAGGAGGAGGCACCTTCAGGGTCATTGAGAAGGTCAAACGAAATTCAGACTCTACG
GAGTTGGCAGCACAGATGAATGAAAGTGTGACGTCATGGATGTCATCGCTATTTGCTGTCCAAAGTACAAAGAT
CGACCACAAATTGCAAGAGTAGTGCAGAAAACCAGCAGTGGCTTCAGTGTTTCAGTGGATGGCAGGCTCCTACAGT
GGCTCCTGGACTGAGGCTAAGCGCCGTGATGGCCGCAAACCTGGTGCCTTGGGTAGACACTATTAAAGAGTCAGAC
ATTATTTACAAAAAATTGCTCTAACGAGTGCTAATAAGCTGACTAATAAAGTTGTTTCAGACTTTACGATCCCTG
TATGCCGCCAAGGATGGGACTTCCAGCTAATGAATTTGTACATGCAGCCAAATTTACAGGAATTTTTTTAAAAGG
CAGAAAAACTTGAAATACCAACATTCTGGCAAAAAAATCAGTTTTATGAAGAGTAAGTGGAACCTGGGATGCA
GGAACAAAAGAAGGAAATGTTGGGCAAACATTTTTGTGGGAGCTCCCTTCGCTGTTGTGCAGCAGAAACAGATTC
TCAGTTTCATTTTTACTCCCCTGTATTATAGTTTAAACAAAAATTGTTTATATCTTGGAACAAAACTTTCTGTTT
AAAAAAATAAACAAGTGAATGTTGGAAATTAGTCTGTTAATGTTCTTAATAAAGTGTTCTTGAGTTTAACCTA
GCAGCGGATGGCTTTCTTTAGCTTAGCCAGTTTCCAGGGAAGCATTGTTTTTTCCAGGCTGTAAAATGGCAGAA
TCTCCTGGATATATAATTTATTCTGTTGAAAAATAAAAAAGCATGCAGTATCTATGACCTATCTGCAGAAGGAGT
TTTTGTAAATGTAGATTTTGATGTATTAGGTCACCCTGAAAACAATACAAGAAAAGGGATCCCCAGGTAATCTGG
TGGAGCGAATACTGCAATAAATTTTTTTTACTTCTCTTTGTTACTTGTCTGTTTCCATTT

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FIGURE 970

MNGDMPHVPIITLAGIASLTDLLNQLPLPSPLPATTTKSLLFNARIAEEVNCLLACRDDNLVSQIVHSLNQVSTD
HIELKDNLGSDDEGDIPVLLQAVLARSNVFREKSMQNRVYQSGMMMSQYKLSQNSMHSSPASSNYQQTTISHS
PSSRFVPPQTSSGNRFMPQQNSPVSPYAPQSPAGYMPYSHPSSTYTHPQQQASVSSPIVAGGLRNIHDNKVSG
PLSGNSANHHADNPRHGSSSEDYLMVHRLSSDDGDSSTMRNAASFPLRSPQPVCSAGSEGTPKGSRPPLILQSQ
SLPCSSPRDVPPDILLDSPERKQKKQKKMKLGKDEKEQSEKAAMYDIISSPSKDSTKLTLRSLRVRSSDMDQQED
MISGVENSNVSENDIPFNVQYPGQTSKTPITPDINRPLNAAQCLSQQEQTAFLPANQVPVLQONTSVAAKQPQT
SVVQNOQQQISQQGPIDYVELDALAEIERIERESAIERERFSKEVQDKDKPLKKRKQDSYPQEAGGATGGNRPAS
QETGSTNGSRPALMVSIDLHQAGRVDSQASITQDSDSIKKPEEIKQCNDAPVSVLQEDIVGSLKSTPENHPETP
KKKSDPELSKSEMKQSESRLAESKPENENRLVETKSSSENKLETKVETQTEELKQNESRTTECKQNESTIVEPKQNE
NRLSDTKPNDNKQNNGRSETTKSRPETPKQKGESRPETPKQKSDGHPETPKQKGDGRPETPKQKGESRPETPKQK
NEGRPETPKHRHDNRRDSGKPESTEKKPEVSKHKQDTKSDSPRLKSERAEALKQRPDGRSVSESLRRDHDNKQKSD
DRGESERHRGDQSRVRPETLRSSSRNEHGKSDSSKTDKLERKHRHESGDSRERPSSGEQKSRPDSRVRKQSDS
NKSRSCLKGFKSPTSKDDKRTGKNSKVDTNKAHPDNKAFFPSYLLGGRSGALKNFVIPKIKRDKDGNVTQETKK
MEMKGEPKDKVEKIGLVEDLNKGAKPVVVLQKLSLDDVQKLIKDRDKSRSSLKPIKNKPSKSNKGSIDQSVLKE
LPELLAEIESTMPLCERVKMNRKRSTVNEKPKYAEISSDEDNDSDEAFESSRKRHKDDDKAWEYEERDRSS
GDHRRSGHSHEGRSSGGGRYRNRSPSDSDMEDYSPPPSLSEVARKMKKKEKQKKRKAYEPKLTPEEMDSSTFK
RFTASIENTLDNLEDMDFTAFGDDDEIPQELLGKHQLNELGSESAKIKAMGIMDKLSTDKTVKVLNILEKNIQD
GSKLSTLLNHNNDTEEEERLWRDLIMERVTKSADACLTTINIMTSPNMPKAVYIEDVIERVIQYTKFHLQNTLYP
QYDPVYRLDPFHGGGLSSKAKRAKCSHTKQRVIVMLYNKVCDIVSSLSLELIEIQLLTDTTILQVSSMGITPFFVE
NVSELQLCAIKLVTAVFSRYEKHRQLILEEIFTSLARLPTSKRSLRNFRNLSSDMDGEPMYIQMVTALVLQLIQ
VVHLPSSSEKDSNAEEDSNKKIDQDVVITNSYETAMRTAQNFLSIFLKKCGSKQGEEDYRPLFENFVQDLLSTVNK
PEWFAAELLSSLLGRLLVHQFSNKSTEMALRVASLDYLGTVAAARLRKDAVTSKMDQGSIERILKQVSGGEDEIQ
LOKALLDYLDENTETDPSLVFSRKFYIAQWFRDTTLETEKAMKSQKDEESSEGTTHAKEIETTQIMHRAENRKK
FLRSIIKTTPSQFSTLKMSD TVDYDDACLIVRYLASMRPFAQSFDIYLTQILRVLGENAIAVRTKAMKCLSEV
AVDPSILARLDMQRGVHGRMDNSTSVREA AVELLGRFVLCRPQLAEQYYDMLIERILDGTGISVRKRVIKILRDI
CIEQPTFPKITEMCVKMIRRVNDEEGIKKLVNETFQKLWFTPTPHNDKEAMTRKILNITDVVAACRDTGYDWFEQ
LLQNLKSEEDSSYPVKKACTQLVDNLVEHILKYEESLADSDNKGVNSGRLVACITTLFLFSKIRPQLMVKHAM
TMQPYLTTCSTQNDFMVICNVAKILELVVPLMEHPSETFLATIEEDLMKLI IKYGMTVVQHCVSCLGAVVNKVT
QNFKFVWACFNRYYGAI SKLKSQH QEDPNNTSLLTNKPALLRSLFTVGALCRHFD FDFLEDFKGN SKVNIKDKVLE
LLMYFTKHSDEEVQTKAIGLGF AFIQHPSLMFEQEVKNLYNNILSDKNSSVNLKIQVLKNLQTYLQEEEDTRMQQ
ADRDWKKVAKQEDLKEMGDVSSGMSSSIMQLYLKQVLEAFFHTQSSVRHFALNVIALTLNQGLIHPVQCVPYLIA
MGTDPEPAMRNKADQQLVEIDKKYAGFIHMKAVAGMKMSYQVQQAINTCLKDPVRGFRQDESSSALCSHLYSMIR
GNRQHRRAFLISLLNLFDDTAKTDVTMLLYIADNLACFPYQTQEEPLFIMHHIDITLSVSGSNLLQSFKESMVKD
KRKERKSSPSKENESSDSEEEVSRPRKSRKRVDS DSDSDSEDDINSVMKCLPENSAPLIEFANVSQGILLMLK
QHLKNLCGFSDSKI QKYSSES AKVYDKAINRKTGVHFHPKQTLDFLRSDMANSKITEEVKRSIVKQYLD FKLLM
EHLDPDEEEEEGEVSASTNARNKAITSLGGGSPKNNTAAETEDDES DGEDRGGGTSGSLRRSKRNSDSTELAAQ
MNESVDVMDVIAICCPKYKDRPQIARVVQKTSSGFSVQWMAGSYSGSWTEAKRRDGRKLVPWVDTIKESDIIYKK
IALTSANKLTNKVVQTLRSLYAAKDGTS

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FIGURE 971A

CGAAGCGGGTCTGCCCCGCTGTCAGCTGCGGCCCCCGGCGCGGGGGTGGCCGCGACCATTGGCGGAGAG
GCGAAAGGGGCGGGGCCCGCCAGCCGCTGCGGGCAAGGCTGAACAGGCGGAGGTGGGCAGCCGCCAGGGAAG
CACGGTCCAGGCGGCTACATTGCGGCCCGCCATGGCAGCGGCGCCCTGAAAGTGTGCATCGTGGGCTCGGGGAA
CTGGGGTTTCAGCTGTTGCAAAAAATAATTGGTAATAACGTCAAGAACTTCAGAAATTTGCCTCCACAGTCAAGAT
GTGGGTCTTTGAAGAAACAGTGAATGGCAGAAAACGTGACAGACATCATAAATAATGACCATGAAAATGTAAAATA
TCTTCCTGGACACAAGCTGCCAGAAAATGTGGTTGCCATGTCAAATCTTAGCGAGGCTGTGCAGGATGCAGACCT
GCTGGTGTTTGTCAATCCCCACCAGTTCAATTCACAGAATCTGTGATGAGATCACTGGGAGAGTGCCCAAGAAAGC
GCTGGGAATCACCCCTCATCAAGGGCATAGACGAGGGCCCCGAGGGGCTGAAACTCAATTTCTGACATCATCCGTGA
GAAGATGGGTATTGACATCAGTGTGCTGATGGGAGCCAACATTGCCAATGAGGTGGCTGCAGAGAAGTTCTGTGA
GACCACCATCGGCAGCAAAGTAATGGAGAACGGCCTTCTCTTCAAAGAACTTCTGCAGACTCCAAATTTTCGAAT
TACGGTGGTTGATGATGCAGACACTGTTGAACTCTGTGGTGCCTTAAGAACATCGTAGCTGTGGGAGCTGGGTT
CTGCGACGGCCTCCGCTGTGGAGACAACACCAAAGCGGCGCTCATCCGCTGGGACTCATGGAAATGATTGCTTT
TGCCAGGATCTTCTGCAAAGGCCAAGTGTCTACAGCCACCTTCTAGAGAGCTGCGGGGTGGCCGACCTGATCAC
CACCTGTTACGGAGGGCGGAACCGCAGGGTGGCCGAGGCCTTCGCCAGAACTGGGAAGACCATTGAAGAGTTGGA
GAAGGAGATGCTGAATGGGCAAAAGCTCCAAGGACCGCAGACTTCTGCTGAAGTGTACCGCATCCTCAAACAGAA
GGGACTACTGGACAAGTTTCCATTGTTTACTGTCAGTGTATCAGATCTGCTACGAAAGCAGACCAGTTCAAGAGAT
GTTGCTTGTCTTCAGAGCCATCCAGAGCATACATTAAGTGAATCATGCAACGTGTTGGGGGAAGTTCTGCCTTT
CTGATCAATCTTTGGGTTACGTGGAACAGGACTTGGCAACATGATGTTTACTGTAAATCTCATCACGGATA
TGATGAATTTTACAGGTTGTTTTTGAATTGTGAGAGGCAGTTTATTAGCAAAGATGTACTGGGCAGTAACTA
AACACACATGCAAACATGTGAATGGTGGTTTTATTCTCATTCTGTGGATGTTTCTATGAGCCAAAATTTGATGTC
TTTTTTCAAATTTGCTTATGAAATTTCCACACAATCGTAGCTTATAAGATTGGAACGATCTCAGCCAAATATTT
TAGGTGTAATTCATATGTAATTTGAGTGGAGGATTTTTTTTCTCATTTTTCTAGTGTTAAATTTTAAACCAGCATT
ACATGGTAGAGTGGAGGAGTGAGTGTGTTCAAAGATCAACATATTTAACTTTTAAACACTATCTCAAAGCCAGCA
TAATTAACACTTTGATTGTGGGCTGACCTTGTGTTTTTAAACAATCAGGCATTTTTTAATTAGATAATCCACTCA
TGATTTCCCCCTCACTGCAGTTGTCTGCATTTTTTAGCCTCTTTTCTCTTCGTTAGTTGTGAGAATATGCCTTTG
TCAAGGCTCAGAGGTAACAAGACAGAAAATTCATCTGGGATTTTTCTGCTGTGGCTGGCACATTCTTCTGATTAA
CAGACACTTGTATGATGCTTTAGGCTAGTTAGTGCATTTTTTAGCAAACATTTATCTTAAACATCAGATCCAC
TGGGGGGTGCAAGGGGCTACTGTTAGTCTCTTGTAGATGCAGTCACTCCTCCTGGTCACCTAGTGAGCAGGGA
CAGAGCCAGGAGTCAAGTGCAGTGCCAAGGTGCATGACCCTCTGAGAAGTCACTGGGCTGATTTGACCTCCGACT
CATTGGTTGTGTAATGCCATGTGCAGCCTTCTCTGAGGCCATAGGAGGGCTTCTGAGCTGAGATCTATGCAG
GCCATCCTCTCAACAGGTGCCACTCCAAGGGCGGTCTCGGTGCAGCAGCATCAGCTTCACTTGTGGGGGGGTGG
GGGAAGGGGCGGTCTCAGAAAATGCAGGTTCCCAGGTCCACCCTGGACTTCTGAAGGGGTGTGGCATCTGTGTTT
CTGATGCTTACTACAATATGTGAACCACTACTTTAGAAAATCTGCTTTAACTTGGTATTCTCTAATTGTGTTCC
CTAGGAAATGACTGTCCCAAGAGCCAGTGATTATTCAGGTGTTCCCTGGAAAGGTCAAGTGAGTCTGGGAAACA
CTATGTCTGTACACCTCTTGAAGGTGTGAATGTATGTTTATACATCAGTGAACCCATTTTTCTAGCCTAGCAA
GTCCCAAAACACATTACACTGAAGAGATTTTGGTGAGGAAACTTGCTGGAGTTTTCAGGGAACACTGTTCTAGGCT
TAGGTGACCTTAGGATCACTCAAGTAGACCCTTCACTCCCTGCGAGAAATTAGGATGAATAACTACCTGTGGCAT
TGTTGGTTCTGAACTTTTACAGTTCAGGCCTGCTGTGAATCTTTGATGAAGCTTTAAGGTGACACTGTTGTACAA
GATGTCAGCTTTGCTGAAACGCACATTACCTGGAATAAGTGCTTTAATTGTAGAATTAGAATGGGATTTACTGTA
CTGTTTTTAAATGAGATTGGCTTCAGAAATCCATTACAGTTACCTTACATAGCACTTGATACGTGTTAAATGAACAT
ATGAATGTAATTTATATATTCCTAGAATTTAAGTTACTTTGTGAGATTTGGGCCTGTCCCTCAATGCCAGTTTAG
GATTTCTTTTTTCTATACCTTGAAATGATTATAAAATAGATTTTCATGGGAATTTTAAAACTCTATCCAAAAC
ATTTTTGGAGCATTTTAAAGCCCCATACACAGAAGTATACGAAAGCACACAAAACACTCCAAGTTTCAGCAGTTT
TAGCGCCACCATTAAACCACTTTGCTTGTCTCATGAAAATCTTTGTTAAAGTTTGTACACAGGTAACAAAAAGT
TACTTTAAAGATATATAAAGGGCTGTAAGCTAATTGTGGTGTCTAGTAAGTAGCATAATGAGATGTGAGGAGTT
GGAACTTTGCCTGTTTTGCGTATTTTCATCTGCATTGAGCTTCTTACTCTGGGTTTGTACTCGAGTGTTATTTCT
TTACAAATGCCCTTGTAATTACCACTCTGAAGTCTGCTGACTGTGTCTCTTGAACATACTTAGGATATTCTGCAC
ATTATGGA AAAAGGTAAATTTTAGAAGTTTCTGCTCTACTAACTGTAGATATTTATGACTCTGCGAGTTATCTAT

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FIGURE 971B

TTTTATAACCACTGTGGTCCATTGTTCAATTTAATTCACATTTCTTATGAAGTATGGTAACAGGGAGGGAGACA
CCTAGATTAGCAGCTCAATTTGTACTACTTCAGCCAATCTGTGAATGTAAAACTACACTGTTGCCTTGCTAGGA
TCCACCCTCCTATAATATGGAACAAATATCTGAATGAAATCCACCCTAGGAGACGGAGTCAAACATAACTTGTGG
TTTTTCATTTAACTTTTGGTACAGCATGGCCCCATGGCATCCACACCAAGAGGGTGTGTGATGAGGTGCCGGT
GTGCAAAGGGAACTTTAGTTTTTCCACTGGTTCTTATCTGCTAGCCTTTTACATACATGTGTACTATATTTGTTT
ATAGACTGTAGGTGGATATATAATTTAAAAGCTTGATTTAATAAACATTTAACCCCTAAACTTGGGG

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FIGURE 972

EAGPAPLSAAAPGAGRGWPRPLAERRKGRGRRQPLRARLNRRRWAAGQGSTVQAATFGPAMAAAPLKVCIVGSGN
WGS AVAKIIIGNNVKKLQKFASTVKMWVFEETVNGRKLTDIINNDHENVKYLPGHKLPENNVAMSNLSEAVQDADL
LVFVIPHQFIHRICDEITGRVPPKALGITLIKIDEGPEGLKLISDIIREKMGIDISVLMGANIANEVAAEFCE
TTIGSKVMENGLLFKELLQTPNFRITVDDADTVELCGALKNIVAVGAGFCDGLRCGDNTKAAVIRLGLMEMIAF
ARIFCKGQVSTATFLESCGVADLITTCYGGRRNRVAEAFARTGKTIEELEKEMLINGQKLQGPQTSAEVYRILKQK
GLLDKFPLFTAVYQICYESRPVQEMLSCLQSHPEHT

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FIGURE 973A

CTTTCCCCCTTACTCCGCTCCCCTCTTTTCCCTCCCTCTCCTCCCCTTCCCTCTGTTCTCTCCTCCTCTTCCCCCTC
CCCTCCCCCGTCCGGGGCACTCTATATTCAAGCCACCGTTTCTGCTTACAAAATGGCCACCGCACGCGACACC
TACGGTCACGTGGCCTGCCGCCCTCTCAGTTTCGGAATCTGCCTAGCTCCCACTAAGGGGAGGCTACCCGCGGA
AGAGCGAGGGCAGATTAGACCGGAGAAATCCCACCACATCTCCAAGCCCGGAACTGAGAGAGGAAGAAGAGTGA
AGGCCAGTGTTAGGAAAAAAAAAAAAACAAAAACAAAAAACGAAAAACGAAAGCTGAGTGCATAGAGTTGGAAAG
GGGAGCGAATGCGTAAGGTTGGAAAGGGGGCGAAGAGGCCTAGGTTAACATTTTCAGGCGTCTTAGCCGGTGGA
AAGCGGGAGACGCAAGTTCTCGCGAGATCTCGAGAACTCCGAGGCTGAGACTAGGGTTTTAGCGGAGAGCACGGG
AAGTGTAGCTCGAGAGAACTGGGACAGCATTTCGCACCCTAAGCTCCAAGGCAGGACTGCTAGGGGCGACAGGAC
TAAGTAGGAAATCCCTTGAGCTTAGACCTGAGGGAGCGCGCAGTAGCCGGGCAGAAGTCGCCGCGACAGGGAATT
GCGGTGTGAGAGGGAGGGCACACGTTGTACGTGCTGACGTAGCCGGCTTTCCAGCGGGTATATTAGATCCGTGGC
CGCGCGGTGCGCTCCAGAGCCGCGAGTTCTCCCGTGAGAGGGCCTTCGCGGTGGAACAAACACTCGCTTAGCAGCG
GAAGACTCCGAGTTCTCGGTACTCTTCAGGGATGAGTCATGTGGCAGTGGAAAATGCGCTCGGGCTGGACCAGCA
GTTTGCTGGCCTAGACCTGAACCTCTTCAGATAATCAGAGTGGAGGAAGTACAGCCAGCAAAGGGCGCTATATTCC
TCCTCATTAAAGGAACCGAGAAGCTACTAGAGGTTTCTACGATAAAGACAGTTTCAGGGTGGAGTTCTAGCAAAGA
TAAGGATGCGTATAGCAGTTTGGATCTCGTAGTGATTCAAGAGGGAAGTCTAGCTTCTTCAGTGATCGTGGAAG
TGGATCAAGGGGAAGGTTTGATGATCGTGGACGGAGTGATTACGATGGCATTGGCAGCCGTGGTGACAGAAGTGG
CTTTGGCAAATTTGAACGTGGTGGAAACAGTCGCTGGTGTGACAAATCAGATGAAGATGATTGGTCAAACCACT
CCCACCAAGTGAACGCTTGGAACAGGAACCTCTTTCTGGAGGCAACACTGGGATTAATTTGAGAAATACGATGA
CATTCCAGTTGAGGCAACAGGCAACAACCTGTCTCCACATATTGAAAGTTTCAGTGATGTTGAGATGGGAGAAAT
TATCATGGGAAACATTGAGCTTACTCGTTATACTCGCCCAACTCCAGTGCAAAAGCATGCTATTCTTATTATCAA
AGAGAAAAGAGACTTGATGGCTTGTGCCCAACAGGGTCTGGAAAACTGCAGCATTCTGTTGCCCATCTTGAG
TCAGATTTATTTCAGATGGTCCAGGCGAGGCTTTGAGGGCCATGAAGGAAAATGGAAGGTATGGGCGCCGCAAACA
ATACCCAATCTCCTTGGTATTAGCACCAACGAGAGAGTTGGCAGTACAGATCTACGAAGAAGCCAGAAAATTTTC
ATACCGATCTAGAGTTGCTCCTTGCGTGGTTTTATGGTGGTGCCGATATTGGTCAGCAGATTTCGAGACTTGGAACG
TGGATGCCATTTGTTAGTAGCCACTCCAGGACGTCTAGTGGATATGATGGAAAGAGGAAAGATTGGATTAGACTT
TTGCAAATACTTGGTGTAGATGAAGCTGATCGGATGTTGGATATGGGGTTTGAGCCTCAGATTCTGTAGAATAGT
CGAACAAGATACTATGCCTCCAAAGGGTGTCCGCCACACTATGATGTTTAGTGCTACTTTTCTTAAGGAAATACA
GATGCTGGCTCGTGATTTCTTAGATGAATATATCTTCTTGGCTGTAGGAAGAGTTGGCTCTACCTCTGAAAACAT
CACACAGAAAGTAGTTTGGGTGGAAGAATCAGACAAACGGTCATTTCTGCTTGACCTCCTAAATGCAACAGGCAA
GGATTCAGTGACCTTAGTGTTTGTGGAGACCAAAAGGGTGCAGATTCTCTGGAGGATTTCTTATACCATGAAGG
ATACGCATGTACCAGCATCCATGGAGACCGTTCTCAGAGGGATAGAGAAGAGGCCCTTCACCAGTTCGCTCAGG
AAAAAGCCCAATTTTAGTGCTACAGCAGTAGCAGCAAGAGGACTGGACATTTCAAATGTGAAACATGTTATCAA
TTTTGACTTGCCAAGTGATATTGAAGAATATGTACATCGTATTGGTTCGTACGGGACGTGTAGGAAACCTTGGCCT
GGCAACCTCATTCTTTAACGAGAGGAACATAAATATTACTAAGGATTTGTTGGATCTTCTTGTGAAAGCTAAACA
AGAAGTGCCGTCTTGGTTAGAAAACATGGCTTATGAACACCACTACAAGGGTAGCAGTCGTGGACGTTCTAAGAG
TAGCAGATTTAGTGGAGGGTTTGGTGCCAGAGACTACCGACAAAGTAGCGGTGCCAGCAGTTCCAGCTTCAGCAG
CAGCCGCGCAAGCAGCAGCCGCGAGTGGCGGAGGTGGCCACGGTAGCAGCAGAGGATTTGGTGGAGGTGGCTATGG
AGGCTTTTACAACAGTGATGGATATGGAGGAAATTATAACTCCCAGGGGGTTGACTGGTGGGGTAACTGAGCCCTG
CTTTGCAGTAGGTCACCCTGCCAAACAAGCTAATATGGAACCACATGTAAGTTAGCCAGACTATACCTTGTGTA
GTTTCAAGAACTCGCAGTACATTACCAGCTGTGATTCTCCACTGAAATTTTTTTTTTAAGGGAGCTCAAGGTCAC
AAGAAGAAATGAAAGGAACAATCAGCAGCCCTGTTTCAAGAGGTGGTTTGAAGACTTCATTGCTGTAGTTTGGATT
AACTCCCCCTCCCGCTACCCCCATCCCAAAGTGCATTTATAATTTTGTGACTGAGGATCATTGTTTGTAAATGT
ACTGTGCCCTTAACTATAGACAACCTTTTTATTTTGTGCTGTTGGCTCAGTAATGCTCAAGATATCAATTGTT
TTGACAAAATAAATTTACTGAACTTGGGCTAAATCAAACCTTGGCACACAGGTGTGATACAACTTAACAGGAAT
CATCGATTATCCATAAATAATATAAGGAAAACTTATGCGGTAGCCTGCATTAGGGCTTTTTGATACTTGCAGA
TTGGGGGAAAACAACAATGTCTTGAAGCATATTAATGGAATTAGTTTCTAATGTGGCAAACCTGTATTAAGTTAA
AGTTCTGATTTGCTCACTCTATCCTGGATAGGTATTTAGAACCTGATAGTCTTTAAGCCATTCCAGTCATGATGA
GGTGATGTATGAATACATGCATACATTCAAAGCACTGTTTTCAAAGTTAATGCAAGTAAATACAGCAATTCCTCT

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FIGURE 973B

TTCAACGTTTAGGCAGATCATTAATTATGAGCTAGCCAAATGTGGGCATACTATTACAGGGAAAGTTTAAAGGTC
TGATAACTTGAAAATAGGTTTTTAGGAGAATTCATCTACTTAGACTTTTTAAGTGCCTGCCATAAATGAAATTGA
AATGGTAGAATGGCTGACCACAGCAATGACCAGCCCTCATTAGGGCCCTGGATGATTTTTTGGTCTAATAACGCAT
GCTAGTGTGATGTTTTTTGGTCAGAGGGTATGAACAGGAAGAATTAAATGCAGCAGGCTTTATTTTAAATGCCG
ATTCACATTACTCTGTTCAAGCTGCGTTGAGATGTTAACTGGCTTACTATAGACTTCGTAAAAATGGCTCCAGA
AAAGTAACAACTGAAATCTTTGAGATCACACAGGTTGGAAATATGTACATAACTGCACAAGGTGTCAATTCTGC
TCTACAGTGCAGTTTTAGTCAGTTTTAGTTGCATAGGTTTCCATTGTATTTATAGTCTGTTTATGCTAAATCTGG
CCAAAGATGAACATTGTCCACCCTAAATGCCTCTGCCACTTTGAATTCTGTGCTAATTTTTGTGGCCAGAAATGC
GGTGATCAAAACGCTCCATCTTTTTACAGTGGCATAGGAAGACGGCAAAAATTTCTAAAGTGCAATAGATTTTC
AAGTGTATTGTGCCTTGTTCTAAACCTTTTATTAAGTAGGTGCACCTGACAGTATTGAGGTCAATTTGTTATGGTG
CTATTTCAATTAGTCTAGGTTTAGGCCCTTGTTACATTTTGCCATAACTTTTTACAAAGTACTTCTTTTATTGCA
CATTTCAGAGAATTTTATATATATGTCCTTGTTGTGCGTGTCTTAACTTCCAATCTTACTTTGTCTCTTGGAGATT
GTTGAACGCAGCTTGTTCTAGGAAGGGGATGGGACTAGATTCTAAAATTTATTTGGGACCATGGGAATGATAGTTG
GGAAGAAAACCTATTTGCACACGACAGATTTCTAGATACTTTTTGCTGCTAGCTTTATGTAATATTTATTGAACAT
TTTGACAAATATTTATTTTTGTAAAGCCTAAAAGTGATTCTTTGAAAGTTTAAAGAACTTGACCAAAAAGACAGTA
CAAAAACCTGGCACTTGAAATGTTGAATGTCACCGTATGCGTGAAATTATATATTTCTGGGGTAGTGTGAGCTTTT
AATGTTTAAAGTCATATTAACCTCTTAAGTCAAATTAAGCAGACCCGGCGTTGGCAGTGTAGCCATAACTTTCTGA
TGTTAGTAAAAACAAAATTGGCGACTTGAAATTAATTAAGCAAGGTTTTGATACACTTGTCTTAAGATATTAA
TGAAACACTTCAAAACACTGATGTGAAGTGTCCAGATTCTCAGATGTTTGTGTGTGGATTTTGTTTAGTTGTGT
GTTTTTTTTTTTTTTCAGTGAATGTCTGGCACATTGCAATCCTCAAACATGTGGTTATCTTTGTTGTATTGGCATA
ATCAGTGACTTGTACATTAGCAATAGCATTGAGCAAGTTTTATCAGCAAGCAATATTTTCAGTTAATAAGGTT
TCAAAAATCATGTAAGGATTTAACTTGCTGAATGTAAAGATTGAACCTCAAGTCACTGTAGCTTTAGTAATTGC
TTATTGTATTAGTTTAGATGCTAGCACTGCATGTGCTGTGCATATTCTGATTTTATTAAATAAAAAAAAAA

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FIGURE 974

MSHVAVENALGLDQQFAGLDLNSSDNQSGGSTASKGRYIPPHLRNREATRGFYDKDSSGWSSSKDKDAYSSFGSR
SDSRGKSSFFSDRGSGSRGRFDDRGRSDYDGIGSRGDRSGFGKFERGGNSRWCDKSDDEDDWSKPLPPSERLEQEL
FSGGNTGINFEKYDDIPVEATGNNCPPHIESFSDVEMGEIIMGNIELTRYTRPTPVQKHAIPIIKEKRDLMACAQ
TGSGKTA AFLLPILSQIYSDGPG EALRAMKENG RYGRRKQYPISLVLAPTRELAVQIYEEARKFSYRSRVRPCVV
YGGADIGQQIRD LERGCHLLVATPGRLVDMMERGKIGLDFCKYLVLEADRMLDMGFEPQIRRIVEQDTMPFKGV
RHTMMFSATFPKEIQMLARDFLDEYIFLAVGRVVGSTSENITQKVWVEESDKRSFLLDLLNATGKDSLTLVFVET
KKGADSLDFLYHEGYACTSIHGDRSQRDREEALHQFRSGKSPILVATAVAARGLDISNVKHVINFDLPSDIEEY
VHRIGRTGRVGNLGLATSFFNERNINITKDLLDLLVEAKQEVPSWLENMAYEHYKSSRGRSKSSRFSGGFGAR
DYRQSSGASSSSFSSSRASSRSRGGGGHGSSRGFGGGGYGGFYNSDGYGGNYNSQGVDWWGN

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FIGURE 975

ATGCCCCTAGGTCTCCTGTGGCTGGGCCTAGCCCTGTTGGGGCTCTGCATGCCCAGGCCCAGGACTCCACCTCA
GACCTGATCCCAGCCCCACCTCTGAGCAAGGTCCCTCTGCAGCAGAACTTCCAGGACAACCAATCCAGGGGAAG
TGGTATGTGGTAGGCCTGGCAGGGAATGCAATTCTCAGAGAAGACAAAGACCCGCAAAAGATGTATGCCACCATC
TATGAGCTGAAAGAAGACAAGAGCTACAATGTCACCTCCGTCCTGTTTAGGAAAAAGAAGTGTGACTACTGGATC
AGGACTTTTGTTCAGGTTGCCAGCCCGGCGAGTTCACGCTGGGCAACATTAAGAGTTACCCTGGATTAACGAGT
TACCTCGTCCGAGTGGTGAGCACCAACTACAACCAGCATGCTATGGTGTTCTTCAAGAAAGTTTCTCAAAACAGG
GAGTACTTCAAGATCACCCCTCTACGGGAGAACCAAGGAGCTGACTTCGGAATAAAGGAGAACTTCATCCGCTTC
TCCAAATATCTGGGCCTCCCTGAAAACCACATCGTCTTCCCTGTCCCAATCGACCAGTGTATCGACGGCTTGA

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FIGURE 976

MPLGILLWLGLALLGALHAQAQDSTSDLIPAPPLSKVPLQQNFQDNQFQGKQYVVGLAGNAILREDKDPQKMYATI
YELKEDKSYNVTSVLFRKKKCDYWIRTFVPGCPGEFTLGNIKSYPGLTSYLVRVVSTNYNQHAMVFFKKVSQNR
EYFKITLYGRTKELTSELKENFIRFSKYLGLPENHIVFPVPIDQCIDG

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FIGURE 977

TTAAGCACTTGTTTTGGGTACAAGGCATTTCTGACATTTTATAAACCTACATTTAAGGGGAATTTTTAAAGGAAA
IGTTTTTCTTTTTTTTTTTGTTTTTCGAGGGGGCAAGGAGGGACAGAAAAGTAACCTCTTCTTAAGTGGAATATT
CTAATAAGCTACCTTTTGTAAGTGCCATGTTTATTATCTAATCATTCCAAGTTTTGCATTGATGTCTGACTGCCA
CTCCTTTCTTTCAAGGACAGTGTTTTTTGTTAGTAAAATCACTGGTTTATACAAAGCTTTATTTAGGGGGTAAAGT
TAAGCTGCTAAAACCCCATGTTGGCTGCTGCTGTTGAGATACTGTGCTTTGGGAGTAAAAAAGAAAGTTATTTT
TTTGTCTTAAAGAATTTTAAAAAATTAGTCATGAGACTTATTCATCTTTCCAGGGAACATACTGATTGGTCTTA
AAAGACTAGACAGTTAAGTAAAAGGTGGCTGGAACATCTATTTTTCTACAAAAGTGGAAAAATGAACCTGGTTCT
AGAAGAATGTACACCAAAATAAAACATGTGAAGCAGTATTGATTCTTT

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FIGURE 978

LSTCFGYKAFLTFYKPTFKGNF

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FIGURE 979

GCACGAGCATAGACTTTTTAAACTGGTACGGTTCTTAGAGATCGTCTCTTGCCCTTCTGTTGTTGTTGKTGTTTTTT
TCTTTTTCTTCTTCTCCTTCTCCTTCTTCTTCTTCTCCTTCTTTCTTCTTTTTTTTTTTCAGAGTCTTGCTCTG
TCACCAAGACTGGAGTGAAGTGATGTGATCTCGGCTTACTGCAACCTGGGAGGCAGAGGTTGCAGTGAGTCGAGA
TGGTGCCATTGCTCTCGTTTGGGCAACAAGAGTGAAACTCTTGCTCTCAAAAAAAAAAAAAAAAAAATGAGGTTTAAAGA
CAGTTTTGTCACTTACTGGTGGGATCTGGTCACACAAGATAGCATTAAACGTGACATGGCACATAAAATTGGTTAA
AAAATTTTGTTTTTTAATTACGTAATGTAAAAGCCCAACAAACACTTTATGCAAGATTGGAATGTATCTTCAAAT
TCAGATTTAATAAAACATGTAAAGATCCTCTGTATATAAAAAGTTGTATTTAATCCCTTGCGCCCAAGAATGCTAT
AAAAGATCCCAAGAATGTTATCTATGAAAAGATAGCAATAGGGAATGGTGAACAAAATAATTTAATTTGCCAATTC
TAAAAAACATGGACTTAAACCCCATGAAAACCTTGTTCCATAGTTTTAACTGTTTTATGGTTCCAATACAAAACC
AGAGTGGTTTTACATTCCACAATXACCAAATTTGCATCCAATXTTGGGGTAATTTTXXGTTATTGCCATGGGATAC
TATTCATTTTTT

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FIGURE 980

MVLGLLLLLXFFSFSSSPSPSSSLLLSSFFFQSLALSPRLE

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FIGURE 981A

GTCGACCTGCAGGTCAACGGATCTGAGAGGAGAGTAGCTTCTTGTAGATAACAGTTGGATTATATACCATGTCTCT
GATCCCTTCATCATCCAGGAGAGCAGAGGTGGTCACCTGATAGCAGCAAGCCTGGGGGCTGCAGCTTGGTGGG
TAGAGGTACTCAGGGGTACAGATGTCTCCAAACCTGTCTGCTGCCTTAGGGAGCTTCTAATAAGTTGATGGATT
TGGTTAAATTAACCTTGGCTACTTGGCAGGACTGGGTCAGTGAGGACCAACAAAAAGAAGACATCAGATTATACC
CTGGGGGTTTGTATTTCTTGTGTTTCTTTCTCTTCTTGTACTAAAATATTTACCCATGACTGGGAAAGAGCAAC
TGGAGTCTTTGTAGCATTATCTTAGCAAAAATTTACAAAGTTTGGAAAACAATATTGCCCATATTGTGTGGTGTG
TCCTGTGACACTCAGGATTCAAGTGTGGCCGAAGCCACTAAATGTGAGATGAAGCCATTACAAGGCAGTGTGCA
CATCTGTCCACCCAAGCTGGATGCCAACATTTACAAATAGTGCTTGCCTGACACAAATGCAGTTCCAGGAGGCC
CAAATGAAAATGTTTGTACTGAAATTTGTTAAAGCTTCCCGACAAACTAGATTTATCAGTAAGGATTGTTTTCTG
CAAGGGGGATGAACTTGTGGGGTGAGCCATTTGGGCTGAGGAGGAGGGAGGTTGGAGCTGAGAAATGTGGAGAC
AATTTCCCTTTAGAAGGACTGAATCTCCCTGCCTCTCTGGGGTGCGGCAGCCAGCAGGATCCAATGGTGTATATG
TCTCCCCAGCTCCCCATTGAGTGATATCATGTCTAGTAGCTTGAATTTATCCGTGGTGGGAGTATTATGTCATGGA
AATTGGCAAATGGAACCTTTTATTGGAGATTCAATTGTTAAACTTTTACCAGCACAACTGCCCTGCCTTCAGA
GTCAATGACCCTATCCAAGTTTAATCCATCTGTCCACTGTCTCCAACACGATCTTTATAAAACACACCTGACAAC
ATTACCTTTTATTGAGTTTAAAGATAAGTTTCCAGCTCATCGGGGTGGCTTTAAAGGCCATTTCTCTCTCT
GGACCTCACCCAACCTTTTCAAATCACTTTTCTTACCTTACCTCTAAATGCTACTCAAACCTCCAGCCATCCTGAA
TAATAAGACTTTTGAAGTAGATTATGGGCTGGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGC
CAAGATGGGTGGATCACCTGAGGTCGGGAGTTGAGACCAGCCTGACTAACATAGTGAAACCTGTCTCTACTAA
AAATACAAAATTAGTTGGGGGTGGTGGCACAAAGCCTGTAATCCCAGCTACTCAGGAGGTTGAGGCAGGGGAATTG
CTTGAACCTGGGAGGCGGAGGTTGCGGTGAGCCTAGATTGCTCCACTGCACTCCAGCCTGGGCAACAAGAGCGAA
ACTCCATCTCAAAAAATAAATAAATAAAGTAGATTACATCAGATACCTCTGGCCTAGGTTGTTTATGACC
AACTCTCCTGCTGAGAATAACTAGAAAAGCTAGACAAAACATATTTCCAAAAGATCTCTTTGGAGGCATCAGAGA
ATGGCCAAGGCTGTAAGGAAGCTGCTGAGCCAGAGAGGTGGAGCCAGCACTGGTGCCCTTTACTCTGGGGAC
ATGTGCTGGTTTCAAAAACCTTCAGCTGAGCTTTTGGCATTATGGAACCTGGTGGGGGAGATGAAATTTGTACC
TTAAATCCTGCCTACAGGGAGGGTCCCTGATAATCCCCACCAATTTGGAAATCTGGGTGAGCCTTCACAGGTAC
TGAAGCCCTCCTCTGAATGATCTCAAGTCTGCTAGGGTAGAGGTTACCTGCTTTTGAAAGGCTCCTGGCCTACC
TGTGACAGCAGGAGCAAAAGTGAACCATCTCAGGGTACAGATAACAATCATCCAGAGCCTTGAATGACCTCTACTG
TGCTTAATATATAGTATTGAGCAGTCAGTAAAAAGGATTTAGGCACATGCAAGATGACCTGTGTATCAGGGAGAA
ATAGGCAATAAATTGAGATCCAGCAGGGATTTGAATCATGGATTTGAATCAGGGGCAGCCTTCGAAAGAACTATG
GAGAATATACTCAGATTTAAACATAAGATTGGAATTTTGGCAGAGAACTAACAACCTGTACAAAAAGGAACCA
AATGGAAATCCTAGAACTGAAAGATGCAATTAACCGATGTTGAGAAATAGCCAACATCTATTGAACACTTCCCAT
GTGGACAGCTGTGCTAAACACTTTACAGGCATCAACATAAGATGTGTCCCCTTACAGCAGTGAGTGCTCCCTCCT
AAGACATGGACAGCCTGGTTTCCCTATCTCTGCTTCATCAAAACCCCTTTACGTGGGGCTTAGACACTCCTGT
TGTCTCTAGTGTCTAGTAGCACAGGGCTCAGCACATGGAAGCCACTAGATACAATTTGATGACCAGGACCTCCGA
TGAAAGCCATGGGTGCTGATTGGGAAGGCATTGTCTTTATGTGCTATGGTCTTAAAGCTTCATCCAGGAAGCAG
AACTCGGGGGGTGCTGAGGACCCAGAACCGAGAATAAGATTAGTCAGAGATTTCTGTGGGCAGAAATCATAAGG
ACGCCAACTGTTTGGGTGAGATAAGACGAAACCAAGAGTGGACTTGTGGCCAGAAGCGTGAGGAAGAGGGAGAGA
GCTTCCCTTGTCCCTTTTCTTCTCTCCCTAAGCCACAGTGATTGACAGCCCCCGCTTTGGAGTCAGAGCAGG
CTTGAGACTGGACTGGGAAAGGAGGGTGGGTGAGGATACAGAGCAGGAAGGCTGGGAGTCAGGGCAGGAGCAAG
GGGCTGGGGCATTCATTGTGCTGATCTCTCCACTTTACCTGGGGTAAAGAAGCATATGCAAAAGCCACGGTGT
GAGIATTTCCCAAGTGCCAGGGTCAGGGCATGATTATCAGTGCAGCATTTCAATCAATCCTTATAGTAACCGA
TGATGTGGCTTCTATTATTAGCTCTATCAGATAATGAACTGAGACCAAGACAGGCTCTGCACATTGTGTGGGGT
AATGACACAGGGGGATTGAGACCTAGACTCCATAACTCCTGCCCCAGGGACCACCCCAACCTCACCTGTGCAT
GTCGACAAAGGACAGACTGGGCCACTTCTCAGGACACAGCGGGGAAATGACACAGAGCAGGGAGGTTCCAGGAGC
CCCGAGCGTCTTTTCTCCAGGAGAATACTCTCTGAATTCAGACTGGGGTCAGAGAAACATTTACCCAGGAGCCGC
AGTGTGGGTGGGGCTTTTACTTGAAACGCTGTCTGAAGGCAGTGGCAGGATGAACTCTCCACCCTACCTTGGCA
AGCCACTTCTCTTCTGCAATCTGTAAGGACATTGTTGAGAGAATTATGGTCTTCCAATTCCGGAGGGTTGAAGAA
AGACAAATAGGAGAGAACCTATCATAGTCAGGTGCTAGCTGCCTTCTCTTTCAGAGAGTGTGAGAATAAAGTGAT

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FIGURE 981B

ACACTTGATTATTAGCAAATACTTTGGAAATTTTAAACGCTAATATTCAACACACTCTGGAAGAGGCCAAATAAGT
AGACAGGTTTCATATACATCATCTCCTTCAGCTAGTCCTCACAAAAACAAACAAATGAATAAAACAAAATTCCTTCTT
TGGCCCTCATAGGAAGACACTGTTTCTTGAACGTGTTTCAAAAAGGATGGGTGACTCAAGGTCACACTGTT
TATGAGGACAGTACAGGAATACAGACATGCCATTTTGCCTGAAAAAATCCATCAGCCAGGGAGGTGACACAATTT
TGCAGAAATGTTCTATTTCTCTGAAGGATACATTCTTTAAACCTTTGGGAAATTCATTTCATAGTCTTCTCTCTT
TGAAGGATTACTCTCTGGACACAAAGTGTGTTGATTCTGATTTGTTGGTTGGAAGATGTGTTGGTTGAGAGAAAGA
TTCTGATTTGTTGGTTGAAAATAGACTCATCAAGATCAACTGCTGTAGTAGTAAATATTTTGACATTTTGTCTGT
ATTCTGTGCTGCCCTCACAGCTGCATCACCTTGAGTGAGTCATTTCATACTTTTTTGTGTTGTTTTGTTTTGGA
GATGGAGTCTTACTCTGTTGCCCTAGGCTGGAGTGCAGTGGCGTGATCTTGCTCACTGCGACCTCCATCTCCTGG
GTTCAAGTGATCCTCCTGCCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACATGCCACCATCCCTGCTAATTTT
TGCATTTTCAGTAGAGACGGAGTTTACCATGTTGGTCAGGTTGGTCTTGAACCTCCTGACCTCAGGTGATCCGCC
CACCTCAGCCTCCCCAAGTGCTGGGATTACAGGTGTGAGCCACCGTGCCAGCCAGCCATCATTTTTGAAACAC
GTTTGAGAAATAGTGTCTTCTTTGAGGGCCAAGGAGACATTTTTTTTTGTTTATTGTTGTTTTGTGAGGACT
AGCTGAAGGGGGTGATGTATATTAACCTGCCTACTTATTTGCCTCTTCCCAGAGTGATGAATATTAGGGTTTA
AAGTTTCTGAAGCATTTGTTAATAAAGCCCGGGGCTGGAGGTGAGAAGACCTGGATTCTCTGCATACTTTTGCC
ATCAGCAAGCTGTGTGACCTTGACAGATCCCTTTTTTGTCTAAATCTTTCTGAGTCTTCTGAAAACAATGCCA
GGTTGGGACAGGATGATTGCCAAGCTCCCGTCCAGCTCTAAAACACTGCAACGTATGCTTCTGCACCAGCACTGT
CCATCCTGTAGATCATGCAGAAATCTCTTCAACTTTTTCTACCCATAAAATAGGAGCATGCTTACCTTTTTCC
TAATGTTCCAGGCCCCGGGTCTAGATATTGTAAGTAAGGAAGTTAATGTGTATCAGAGCCCATATGGGCCAGAA
GTTCTCCTCTTCTTCTTACACCTGCTTCCCTCCCTCCCTCCCTCTTCCCTTCTTCTTCCATCCATTG
TGAAGAAGACATGATCACCTCATCTGAGAGTGAAGAGACAGAGGCTCAACTAATGAAATGATTTGTTCAAGGT
CACACGGGTGGCACAAGGCAAGTGGCAGAGGTTGAATTTAGACCCATTCTGTCCAAATGCTGAGTTTATGTCAT
CGTCCCGAGACCATAACTTTAAAGATGTAAGATAGTGGGAAAAGAGTTGATTTCAAAGCACCTCTCAGAAGGACT
CACTTTACATCAGGGGTCAGCAGACTCAGGCCAAATCCGGTCCATTCCCCGCTTTTGCAAAGAAAAGTTGTAGTGG
AACACAGCTAGGCTTATTGATTTATGGATTGCCAACGTCTTTTGTGAAACAGACAGCTGAGCTGAGTAATCGTG
GCGCAGAAAACCTAAAAATATTACTATCTCGTCTTTACAGAATGTTTGCCAATCTATGGTCCGGAGTCCAAGGC
TGTCATTTTTTCAAAGAACACAAAGTGACATGAGACTGTCCCATGTGCAGGGAGCCCTATCATTTTATTATGAAA
AAACGGCCTTTCTGCTCAAATCTGTTTTTTAAAAAGTCAACAAACAGACTCTGGGTACCTGTGACGGAACAGTAGG
GAGTTTGGTTTCCATTGTGCTCTTCTTCCAGGAATCAATGAAGGGGAAATAGAAAATCTTAATTTTGGGGAAAT
TGCACAGGGGAAAAAGGGGAGGGAATCAGTTACAACACTCCATTGCGACACTTAGTGGGGTTGAAAAGTGACAACA
GCAAGGGTTTCTCTTTTGGAAATGCGAGGAGGGTATTTCCGCTTCTCGCAGTGGGGCAGGGTGGCAGACGCCA
GCTTGGGTGAGTGACTATTTCTTTATAAACCACAACCTCTGGGCCCCGAATGGCAGTCCACTGCTTGCTGCAGTCA
CAGAATGGAAATCTGCAGAGGCCCTCCGCAGTCACCTAATCACTCTCCTCCTCTTCTGTTCCATTTCAGAGACGAT
CTGCCGACCCTCTGGGAGAAAATCCAGCAAGATGCAAGCCTTCAGGTAAGGCTACCCCAAGGAGGAGAAGGTGAG
GGTGGATCAGCTGGAGACTGGAAACATATCACAGCTGCCAGGGCTGCCAGGCCAGAGGGCCTGAGAACTGGGTTT
GGGCTGGAGAGGATGTCCATTATTCAAGAAAGAGGCTGTTACATGCATGGGCTTCAGGACTTGTGTTTCAAATA
TCCCAGATGTGGATAGTGCGACCGGAGGGCTGTCTTACTTTCCCAGAGACTCAGGAACCCAGTGAGTAATAGATG
CATGCCAAGGAGTGGGACTGCGATTACAGGCCTAGTTGAATGTGCTGACAGAGAAGCAGAGAGGGGCACCAGGGGC
ACAGCCCCAAGGCCCAGACTGATATGGGCAAGGCCTGTCTGTGCTGACATGTGCGAGGGTCCCACTCTCCAGGGA
CCTTGGTTTTCCCGTCTGTGACATCTGTGACATGAGAGTCACGATAACTCCTTGTGTGCCTTACAGGGTTGTGT
GAAAATTAAATGCACAGATAATAGCGTAACAGTATTCCGTGCATTGTAAAGAGCCTGAAAACCATTATGATTGGA
AAATGGAATCGGCTTTGTGAGACCATCACTATTGTAAAGATGTGATGCTGATAGAAATGACAGGACTGCTTGTGC
ATGCCCTCTGCAGTGTGACATTCAGCAGTGAAATCATGTTGGGGTGACTTCTCCCCACTCTGACCTTTATGTT
TGCTGGGCGGAGGCTGCAAGTCGGGCTCTGTGGGTGTATGAGTGACAAGTCTCTCCCTTCCAGATATGGGGACT
GTCTGCTTCCCTAGGTTGCCTCTCCCTGCTCTGATCAGCTAGAAGCTCCAGGAGATCCTCCTGGAGGCCCCAGCA
GGTGATGTTTATCCCTCCAGACTGAGGCTAAATCTAGAACTAGGATAATCACAACAGGCCAATGCTGCCATAT
GCAAGCACTTTGGTTTGCCTGGCCACCCCTCGTCGAGCATGTGGGCTCTTCAGAGCACCTGATGAGGTGGGTAC
AGTTAGCCACACTTCACAGGTGAAGAGGTGAGGCACAGGTCCAGGTGAGGCTGGCCGGAGCTCTGTTTATTACG

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FIGURE 981C

TCTCACAGCTTTGAGTCTGCTCTCAACCAGAGAGGCCCTTTACCAAGAAGAAAGGATTGGGACCCAGAATCAGG
TCACTGGCTGAGGTAGAGAGGAAGCCGGTTGTTCCCAAGGGTAGCTGCTCCTGCAGGACTCTGAGCAGGTCACC
AGCTAATGGAGGAAAGGCTCTAGGGAAAGACCCTTCTGGTCTCAGACTCAGAGCGAGTTAGCTGCAAGGTGTTCC
GTCTCTTGAACTTCTACCTAGGTGCTATGGTAGCCACTAGTCTCAGGTGGCTATTTAAATTTATACTTAAATGA
ATGAAAATAGAAGAAAATTTAAATCCAGACCCTTGGTCACACTATCCACATTTAAAGAGGTCAATAGCCACATG
TGGTTAGTGGCCACCCTATTGGGCAGTGCAGCTACAGAACATTTTGCATCCCAGAAAGTTCTTTTGATGTTGC
TGCTCTACAGCATGCTTTGCTGAAACAGAAGTGCCTTCCCTGGGAATCTCAGATGGGAAGCAAGTAAGGAGGGGA
GTCAAATGTGGGCTCACTGCTCACCAGCTGTGAGGGTTGGGCCTGCCCTCTTAACCATTGTCAGCCTCAGTCTTCT
CATCCATGCATGCCGTGGGTATACTAAAATACTATAACCCTGGAAAGAGCTGGATGCAAATTTGACAAGTTCTGGG
GGACACAGGAAGGTGCCAAGCACAAGGCTGGGCACATGGTGGCTGTGCACTACAGCTGAGTCCTTTTCTTTTCA
GAATCTGGGATGTTAACCAGAAGACCTTCTATCTGAGGAACAACCAACTAGTTGCTGGATACTTGCAAGGACCAA
ATGTCAATTTAGAAGGTGAGTGGTTGCCAGGAAAGCCAATGTATCTGGGCATCACGTCACTTTGCCCGTCTGTCT
GCAGCAGCATGGCCTGCCTGCACAAACCCTAGGTGCAATGTCCTAATCCTTGTGGGTCTTTGTATTCAAGTTTG
AAGCTGGGAGGGCCTGGCTACTGAAGGGCACATATGAGGGTAGCCTGAAGAGGGTGTGGAGAGGTAGAGTCTAGG
TCAGAGGTCAGTGCCTATAGGCAAGTGGTCCCAGGGCCACAGCTGGGAAGGGCAAATACCAGAAGGCAAGGTTGA
CCATTCCCTTCTCAAGTGCCTATTAAGGCTCCATGTTCTTATGTTGTTCAAACCTAACTCAATCCCAAATTAA
TCCACCATGTATAAGGTTGAGCTATGTCTCTTATTTCCTGGACACCATACTCAGCCATATCTGGTCCACACATTAA
CAGCTGGATGACCTTGAAGAAGCTTCACCCACTCTGTTCCCTCAGCTTTCCTTCAGTGGGATGATATCAACTGGA
CAACAGGATGTGCGATTCTTTTAGTTCCAGCCTTCCAGGATGTTTTCACTCCCTGTTTGTGTTGTAGGATGGT
ATTACCTCCACCTTCCACCTTCCCTATGCCCTGGTTCTGTCTCCTGTGCCTCGCTCTGAAAGTGGATGAGACCT
ACAATTCCTGTCTGGTAGTTCTCCTAATGAACACACTGAAGCACGAGGAAGCTGAGATTTTTGTTGCTACATGA
GAGCATGGAGGCCTCTTAGGGAGAGAGGAGTTTCAGAGACTCCTAGGCTCCTGGTGGAGCCCCACTCATGGCCTT
GTTCATTTTCCCTGCCCTCAGCAACACTCCTATTGACCTGGAGCACAGGTATCCTGGGGAAAGTGAGGGAAATA
TGAGGGAAATATGGACATCACATGGAACAACATCCAGGAGACTCAGGCCTCTAGGAGTAACTGGGTAGTGTGCAT
CCTGGGGAAAGTGAGGGAAATATGGACATCACATGGAACAACATCCAGGAGACTCAGGCCTCTAGGAGTAACTGG
GTAGTGTGCATCCTGGGGAAAGTGAGGGAAATATGGACATCACATGGAACAACATCCAGGAGACTCAGGCCTCTA
GGAGTAACTGGGTAGTGTGCTTGGTTTAACTTCTATTTACCTGCAGACCAGGAAGATGAGACCTCTCTGCCCTT
CTGACCTCGGGATTTTAGTTTTGTGGGGACCAGGGGAGATAGAAAAATACCCGGGGTCTCTTCATTATTGCTGCT
TCTCTTCTATTAACCTGACCTTCCCTCTGTTCTTCCCCAGAAAAGATAGATGTGGTACCCATTGAGCCTCATG
CTCTGTTCTTGGGAATCCATGGAGGGAAGATGTGCCTGTCTGTCAAGTCTGGTGATGAGACCAGACTCCAGC
TGGAGGTAAAAACATGCTTTGGATCTCAAATCACCCAAAACCCAGTGGCTTGAAACAACCAAAATTTTTCTTA
TGATTCTGTGGGTTGACCAGGATTAGCTGGGTAGTTCTGTTCCATGTGGTGGAACATGCTGGGGTCACTTTGGA
GCTGCATTACAGCAGAGTGCCAGGCTTGCCTGGGCATCCAAGGTGGTCCCTCATCTCCAGGCTCTCTTTCCATG
TGATCTCTCAGTGTTTAAAGAGTTAGTTGGAGCTTCTTACAGCATGGCGGCTGACTTCCAAAAGGGATTATTCCA
AAAAGAGCCTCAACATGCAGGCGCTTATTATGACTTCTGCTTGCATCATCCTATTGGCCAAAGCCAGTCACGTGG
CTAAGTCTAGCCCCCTGTGAGAGGAGACTGCATAAGAGTGTGAACACCAGGAGACACGGTCACTGGGGGCCACCA
CTGTAACCATCTACCACAGGACCTGAATCTCTGTGTGCTACTCCCTTGCTCAAGGGCCCCCTACCCACGCAGAC
CTGCTGTCTTCTAGCAAAGCCCATCCTCAGGACCTTTCTCTTCCAATCCTTATTGACTCAAATTGATTAGTTGGT
GCTCCACCCAGAGCCCTGTGCTCCTTTATCTCATGTAATGTTAATGGGTTTCCCAGCCCTGGGAAAACATGGCTT
TGTCTCAGGGGCTTGCTGGATGCAACCTTAACCTCAATGTGAGTGGCCATACTGTGGCACTGTCCCATCCCTCAC
CAGGGACACTGTTCTGGAGGGTGACTGCCTGTTCTGTGAGGAGTGGGGATGGCTAGGACATTGCATGGAACACAC
CACCACCCCATCTTCTCAGAGCTCAAACCCTGACAGAACACCAGCTCCACAGGCCTTGCTTCTGCTGATGGTGC
CGTGTATTTACCAGACTTAGTGGTCCAAGGCCAGAGTGGCAGATTTCCCAAAGTCAAGGTGTGACAGTGGGACAG
CCTCTTTGTGTCTTTGCTGTCTTAAGAAACCTGGGCCAGGCCAGGCGCAGTGGCTCACGCCTTGAATCCCAGCA
CTTTGAGAGGCCAAGGTGGGCAGATCACAGGTGAGGATTTGAGACCAGCCTGGCCAACATTGGTGAAACCCTG
TCTCTATTAATAAATAGAAAACATTAGACAGGTGTGGTGGTGCATGCCTGTAATCCCAGCTACTCAGGAGGCTGAG
GCAGGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCGAGATTGTGCCACTGCACTCCAGCCTAGGC

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FIGURE 981D

GACAGAGCAAGACTCCGTCTCGGGAAAATTAATTAATAAATAAAATAAACCTAGGTCCCAGAGTCCCACAGAATGG
CAGACAGGAGCACCTGGGGGCTTTTAGGGTATGGCATTTCCTCTGTACTAACTCTGGGCTGTCCAGAGGCGATTT
CATGGCGTGGAGTGGAGAGGGAGGCAGCACAGGACTTCCTAGGCCTCAGCTCTCACCTGCCCATCTTTTGATTTC
CAGGCAGTTAACATCACTGACCTGAGCGAGAACAGAAAGCAGGACAAGCGCTTCGCCTTCATCCGCTCAGACAGT
GGCCCCACCACCAGTTTTGAGTCTGCCGCCTGCCCCGGTTGGTTCTCTGCACAGCGATGGAAGCTGACCAGCCC
GTCAGCCTCACCAATATGCCTGACGAAGGCGTCATGGTCACCAAATTCTACTTCCAGGAGGACGAGTAGTACTGC
CCAGGCCTGCCTGTTCCCATTTCTTGATGGCAAGGACTGCAGGGACTGCCAGTCCCCCTGCCCCAGGGCTCCCGG
CTATGGGGGCACTGAGGACCAGCCATTGAGGGGTGGACCCTCAGAAGGCGTCACAACAACCTGGTTCACAGGACTC
TGCCTCTCTTCAACTGACCAGCCTCCATGCTGCCTCCAGAATGGTCTTTCTAATGTGTGAATCAGAGCACAGCA
GCCCTGCACAAAAGCCCTTCCATGTCGCCTCTGCATTACAGGATCAAACCCCGACCACCTGCCCAACCTGCTCTCC
TCTTGCCACTGCCTCTTCCCTCCCTCATTCCACCTTCCCATGCCCTGGATCCATCAGGCCACTTGATGACCCCCAA
CCAAGTGGCTCCCACACCCTGTTTTACAAAAAAGAAAAGACCAGTCCATGAGGGAGGTTTTTAAGGGTTTGTGGA
AAATGAAAATTAGGATTTTCATGATTTTTTTTTTTTTCAGTCCCCGTGAAGGAGAGCCCTTCATTTGGAGATTATGTT
CTTTTCGGGGAGAGGCTGAGGACTTAAATATTCCTGCATTTGTGAAATGATGGTGAAAGTAAGTGGTAGCTTTTC
CCTTCTTTTTTCTTCTTTTTTTTGTGATGTCCCAACTTGTAATAAATAAAAGTTATGGTACTATGTTAGCCCCATAA
TTTTTTTTTTTCTTTTAAACACTTCCATAATCTGGACTCCTCTGTCCAGGCACTGCTGCCCAGCCTCCAAGCTC
CATCTCCACTCCAGATTTTTTACAGCTGCCTGCAGTACTTTACCTCCTATCAGAAGTTTCTCAGCTCCCAAGGCT
CTGAGCAAATGTGGCTCCTGGGGGTCTTTTCTTCTCTGCTGAAGGAATAAATTGCTCCTTGACATTGTAGAGCT
TCTGGCACTTGGAGACTTGTATGAAAGATGGCTGTGCCTCTGCCTGTCTCCCCACCAGGCTGGGAGCTCTGCAGA
GCAGGAAACATGACTCGTATATGTCTCAGGTCCCTGCAGGGCCAAGCACCTAGCCTCGCTCTTGGCAGGTACTCA
GCGAATGAATGCTGTATATGTTGGGTGCAAAGTTCCCTACTTCTGTGACTTCAGCTCTGTTTTACAATAAAATC
TTGAAAATGCCTATATTGTTGACTATGTCCTTGGCCTTGACAGGCTTTGGGTATAGAGTGCTGAGGAACTGAAA
GACCAATGTGTYTTYCTTACCCCAAGAGGCTGGCGCCTGGCCTCTTCTCTGAGAGTTCTTTTCTTCTTCAGCCTC
ACTCTCCCTGGATAACATGAGAGCAAATCTCTCTGCGGG

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FIGURE 982A

AGGGCGTGGTCAGCGCGGCCGAAGGGCGTGGTTGGCGCTCGGTCTGCCCTGCGCGTTTTGGGCTGCGGTTGGAG
GGCCGCAGTTGCAGTCAGGGTCCGCCAGCTCGGGGCCAGCGCATGGGGCTGCTGAGACCGCTCCGGACGTGCGAA
GCGTTCGCGGTGCGGTAGGAAGCTGAAGTCTTCAGCAGAACCCTGACCTAGGTAGGGAGTCTCAATGGCCCTGGG
TGAAGAAAAGGCAGAAGCGGAAGCATCTGAAGACACAAAGGCCAGTCTATGGGAGAGGGAGCTGCAGGGAGCG
GGAGCTGGACATCCCAGGGCCCATGAGTGGGGAGCAGCCCCACGCCTGGAAGCTGAGGGAGGGCTCATCTCCCC
TGTATGGGGGGCAGAAGGGATACCTGCCCTACTTGCTGGATTGGGACTGACCCTGGCGGGCCCCCTCTAGAGCCCCA
CCAGCCACAGGCCAGTGATGCCAACAGAGAGCCCGTAGCTGAGAGGTCTGAGCCTGCACTCAGTGGCCTGCCTCC
TGCCACCATGGGGTCTGGAGACCTTCTGCTCTCCGGGGAAAGCCAGGTGGAGAAGACCAAGCTTTCTTCTCCGA
GGAGTTCCCTCAGACTCTGAGCCTTCCCAGAAACAACATAATTTGCTCAGGACATGATGCTGATACCGAAGATGA
TCCATCCCTAGCAGATTTGCCCCAGGCACTGGACCTCAGCCAGCAGCCTCACAGCTCAGGTCTCTCTTGCCTGTC
ACAGTGAAGTCCGTGCTGAGCCCAGGTTCCGCAGCTCAGCCTTCCAGCTGCAGCATCTCTGCTTCCCTCCACAGG
CAGCAGTCTCCAGGGTCACCAGGAGAGGGCGGAGCCTCGTGGTGGTTCTCTGGCCAAGGTCTCCTCCTCCCTGGA
GCCGGTCTGTCGCCCAGGAACCTTCTCTGTGGTGGGGCTAGGACCTCGGCCCCAGTGGTCACCACAGCCTGTGTT
CTCTGGGGGTGATGCTTCTGGGCTAGGCAGGAGACGCTCTCCTTCCAGGCTGAGTACTGGGCCTGTGTGCTGCC
AGATTCCCTGCCTCCATCACCCGACCGCCACTCCCCCTCTCTGGAACCCAAATAAAGAGTATGAAGATCTGCTTGA
CTATACTTACCCACTGAGGCCCGGGCCTCAGCTCCCAAAGCACCTTGATAGCCGTGTGCCAGCTGACCCCTGTCT
GCAGGACTCCGGGGTAGACCTGGATAGCTTCTCTGTCTCTCCAGCAAGCACCCCTCAAATCACCTACTAATGTCTC
CCCCAAGTGGCCACCAGCAGAGGGCCACTGCCCTGCCATTTTCTGGGCCCAGAGAGCCAAGCCTTAAGCAGTGGCC
CTCCAGAGTACCCAGAAACAGGGGTGGCATGGGCTTGGCATCTTGGAGCCAACCTTGCATCTACCCCCAGAGCCCC
AGGCAGTAGGGATGCTCGTTGGGAGCGCAGAGAGCCAGCCCTGAGGGGTGCGAAGGACCGGCTGACTATAGGCAA
GCACCTTGATATGGGCTCTCCCCAGCTAAGGACACGGGACAGAGGGTGGCCCTCGCCCAGGCCAGAGAGGGAGAA
GAGGACCAGCCAGAGTGCCCGGCGCCCTACCTGCACAGAGTCTAGGTGGAAATCAGAAGAGGAAGTGGAAAGTGA
TGACGAGTATCTTGCCCTCCCCGCTCGGCTGACACAGGTTTCTAGCCTGGTTTCGTATCTAGGATCCATTTCTAC
CTTGGTTACCCTGCCCCTGCGGATATCAAAGGGCAGAGCCCCCTTGAAGTGTGACAGTGTGAGGAGGCTTC
CTTCCCTTCAAGCTCCAGCCAAAGCCAGCTTCCCCCTGGAGCTGCCCTCCAAGGATCTGGGGATCCTGAGGGCCA
GAATCCCTGTTTCTGCGCTCCTTCGTCCGTGCCACGACTCCGCAGGGGAAGGCAGTCTGGGGAGCAGCCAGGC
CCTCGGGGTCTCCTCTGGACTGCTGAAAACACGCCCTCCTTGCCAGCTAGGTGGACCGGTGGCCATTCTCAGA
CCAGATGTTGAAGGGCAGCTTCCCAGGAAAGGAGGAGAACAGGGGAAAAGAATCACTGGTGAATGTGTGAAGAC
ATTTTGTCTGCTAGCTGGAAGAGCTGATCTGCTGGCTGTATAATGTTGCAGATGTTACTGACCACGGGACTGCAGC
CAGGTCCAATCTTACAAGTCTCAAGTCTTCTCTGCAGCTTTACCGGCAATTTAAGAAAGATATAGATGAACATCA
GTCTCTGACGGAGAGTGTCTTACAGAAGGGGGAGATTCTTCTTCACTGCTGTGGAGAACACCCCAAGTTTGTAGA
GGATGTCTTGGGAGGATCGCAAAGCAGTCTGGTGAGCTGGAGAGCCACGCAGATCGCCTGTATGACTCTATCTT
GGCCTCTCTGGACATGCTGGCTGGCTGCACCCCTTATCCCTGACAAAAAGCCCATGGCGGCAATGGAGCACCCATG
TGAAGGGGTTTAACTGGCATCTTCTCAGGCAGAGGTGCAACCTGTGCGCCAAACACTGGCTAGTGAGAAAAAAT
CCTTCAAGAAGTCCTTGCAAGAGCCATTCAACACTGAAGTCAAGGGGGAACCTTCAATATACTAGCTTTAAAAAT
GCCTTTCTCCTCCCTGAATGGAGGGCTGAGTTACTATTTTTATTTACAATGAATCCTTCCAAACTAAGGTTTCC
TTTTGGTGCTTCTCCACAAAGAGCGTGTAGCTTTGCAATTTTTGATAAAATAAGACGTGTGCTTCCCTCTAT
CCCATTAAAAAAGAGCAGATAAAGCTCAAACTATTCCACCTGGTAGGGTCATTTACCAAGGGCTGGTAGGAGATT
CCGAATACTCAATATTCTCAGGCATGCAAGAGGACCTAAGAGACTGAAAAAGTGAATTGTTGGCCAGAAACCTT
GGGTCTTTTTCATAAAGGAAATTTGGGCTTGTCAATCCCTCTTTAAAGATATAGGTAGAAAGAAGAGATTTTAAAC
CCTTTGTCTGCAAAAGAAAAAGGGTTAAATGAAGCATCTATACAGATGACTTTGGGAGATTATGACACCTTTTGC
CATCTTACAGGGCTTACGTCTTTACTTTCTTGGCTAACAGTTTCTTAGAAGAAAATGTGTGAGGAGCTTGGGGAT
CTACAGTCATGCTTTAGCATGGCTATGGAGCTAATTATCAAGCTTAAAGGGTAACCTTTGGGAGGACTCCTCCCTT
CACTCCTAGTCTCCCTTGGAGAGCAGTCCAGGCTCAGGGAAGGGAATGGATAGGATGACACAGTAAGTACAGAA
ACTGAAGCTGTCAATAGTGAAGGAAAAAGGGGAATTTCTCGTTGCTTTGGCATTGACACATAAGTACTTTGATTA
AAAAAATAAATACTATGGATCAACCATTCAAAGCATCAATTCTATAGCTTTTTCAGCAAGATGATCAGTTATT
GCTGGTAACTGCAGATTCTACAGAAAAGCACTTTTAAAGTTCTGTTGGGCCATGAATGAACCTGGAAGGAGGAAA
GCACAGTAACAATGGAACTAAAGTCCTATTATTAATGTGACTTTTCTGCTTCAGAATTTCTGAGACTTTATAGT

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FIGURE 982B

CACTGGAAAATAGCCATTAAATTCTTTAAAGATTAGCTCTTCAACAGTAGCTACACATAAAATGCAGTATTTCAA
GTGCCTGATGCTGCTGTGGTATGCTTTATCATAATGCTTAAGGGCATGATCAAAATTTAAATGGCTTATGAGTTT
GCCATATTAATCATCTTAGTTCCATACACACTGAGACTTTAAAAGGGAAAAACCACTCTAGCAAATAATTGTCAA
TTATAAACCTGTATGTAAAACATTCTTGAAAACCTAGAGTTGGTTAAAAAGGTAGAGATGTCTGACGGCCTCTTC
TTAAATTGATATATTTTACCTTCTCTTAGATGTATATTTATAAGTAGGAACATGTCCTTCCACTGAGTATGTTAC
TGAATAGCCCTTAGGAAATTAAACCCATTTATTTACTAATATTTGACAGGCATAGAAGTGTATTAATTAGCATAA
AAGTTGGAGATGAAAACCCATATAGAAACAAATTGGCCAATATTATACTAATTGAATGCAGAATGTGGCATTCTAT
TCCCAATTCAACTAATAATCAGCTTCAACTGACAGGAATTTGCACAGAATGTTACACAATACCCTGTTTCCCAAGA
AAGTACTACCTTACCTAGAGATGATCTAAGATATTTTGTTCATCTCTGAATAAGGTGAGACTAAAGGGTGCTA
ACTCCCTGGACCTGGCTGTGAATGCTACTGAAGAGTATCAACACAACCTGTTAATTATACCGCCGTGCTTTAAGTT
TAAGACTTACCTTAAAACCTCAAGCTGAAGGCTGGGCACGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGC
CGAGGCGGGTGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTACTAAAA
ATACAAAAAGAAATTAGCCAGGCGTGGTGTATGGGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCATGAGAA
TGGCATGAACCGGGAGGCGGAGCTTGCAGTGAGCTGAGATGGCACCCTGCACTCCAGCCTGGGCAACAGAGTG
AGACTCTTGTCTCAAAAAAAAAAATCAAGCTGAAATTGTTTCAGCCTAGTAAGATGCTGCCAGCAGCATTTCTA
TGAGCAAAACATGGCCAAATTAGAGTCAAGTAGCTGAGCTTGCTAACTGCACTGTGATGCCACACTGGAATAACTT
AGTAGTCCCTTAAAATTAATGGAAGTTAAATCCACAGGGAAGTGATGATACTCAAAGCTGGATCAGCAGTTTCAA
GATCTGGGTCTTGGAGATCCATAGGTAAGCTCAGCAAATGGAAGACGACGTCAACACAGGGCTATTTTGAAGCT
TAGGTGGGAATGGAACACAAAGAAGGTTTGAGGTAAGATATGCTGGAAAGGCAAGATGTAGGCTAAGGGAAATTC
AATCCAAGGTCGAAGAATAGGAAATTACTGCTCAGACCACAATGACTATCATTCTGAAAGGATTTACAGAGTGT
GCAGCTGCTTAGATTTAAGAACACTCTTCTTCACTATGTAACTAATTTATGGCAGCACCTTATATTTAGAACAA
GTGGTAATTCCCTTTACTAAGTGAACAGATTATTAACACCTGTAGTAGCTTTGAACCGTTTGTACTTGAAAATGG
GGGTATAAAGGGTATATATTTTTTCCAGAACCACATTTATTGGCGTATACATAGAAGCAAATCTTAAGGCATGC
TGAAATTTGTTGTAAATCCCAATCTTTACTGCCATGGGGAAAAGAACGCTGGAATTTTCCAACTTAAGTCTGTA
AATATGCTCATCTTAAGTTCATGTAATGTTTCCGCTAACTCACCAAGAATAAGCTGACAATTTAAACAACTTTTA
CTGTGTAAAAATGAAGTGCACGGCATGGCATCACAGTATCTTGACATTTGTTTTGTGTCAATTTAGCTACTTTAGA
AAATAGTTTCTGAACTCTTTCCCCCTTTATACTGTATTAAGGCAAAAACAAAACCTTCTGAAGCATTAAAGATCTT
CACCAAAATAACTATTGGTAACTTCAGGAATTTGTCAGTTGCCTTATGTGAGGATGAATAGATCCACCAAGCACG
CCTATAATACAAAGTAACTATGATTTTTATTGTGAAATTTTCATAGATGGAAAATTGAATATTCTGTCCATTTT
ATTTTACAATTATCTTACCCTTATTTTTGTACCATGTATTTCAATTGCCTGTTTAGTGAAAAATAAAAAATTAA
AAAACCT

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FIGURE 983A

GGCCGAGTCGTGGCGGGAGACGGTGCAGCTGTACGAGGACGAGGTGCGCGAGCTGGAGGAGGCGCTGCGGCGCGG
CCAGGAGAGCAGACTCCAGGCGGAGGAAGAGACGCGGCTGTGCGCGCAGGAGGCAGAGGCGCTGCGGCGCGAGGC
GCTCGGGTTGGAGCAGCTGCGCGCGCGGCTGGAGGACGCGCTGCTGCGGATGCGCGAGGAGTACGGGATACAGGC
CGAGGAGCGGCAGAGAGCGATTGACTGCCTGGAGGATGAGAAGGCAACCCTCACCTTGGCCATGGCTGACTGGCT
GCGGGACTATCAGGACCTCCTGCAGGTGAAGACCGGCCTCAGTCTGGAGGTGGCGACCTACCGGGCCTTATTGGA
AGGAGAAAGTAATCCAGAGATAGTGATCTGGGCTGAGCACGTTGAAAACATGCCGTCAGAATTCAGAAACAAATC
CTATCACTATAACCGACTCACTACTACAGAGGGAATGAATGGAATCTATTTTCAAGGCAGAAAGCACCTTTGGC
AAGTTTCAATCACAGCTCGGCACCTGTATTCTAACCTGTCAGGGCACCGTGGATCTCAGACGGGCACATCTATTGG
AGGTGATGCCAGAAGAGGCTTCTTGGGCTCGGGATATTCTTCTCGGCCACTACCCAGCAGGAAAACTCATACGG
AAAAGCCGTCAGCAGTCAAACCAACGTCAGAACTTTCTCTCCAACCTATGGCCTTTTAAGAAATACTGAGGCTCA
AGTGAAAAACATTCCCTGACAGACCAAAAGCCGGAGATACAAGGGAGGTCCCCGTTTACATAAGTGAAGATTCCAC
AATTGCCCCGCGAGTCGTACCGGGATCGCCGAGACAAGGTGGCAGCAGGTGCTTCGGAAGCACACGGTCAAATGA
GAGGACCGTCATTCTGGGAAAGAAAACAGAAGTGAAAGCCACGAGGGAGCAAGAAAGAAACAGACCAGAAACCAT
CCGAACAAAGCCAGAAGAGAAAAATGTTTCGATTCTAAAGAGAAGGCTTCTGAGGAGAGAAACCTAAGATGGGAAGA
ATTGACAAAGTTAGATAAGGAAGCGAGACAGAGAGAAAGCCAGCAGATGAAGGAGAAGGCTAAGGAGAAGGACTC
ACCGAAGGAGAAGAGTGTGCGAGAGAGAGAGGTGCCGATTAGTCTAGAAGTATCCCAGGACAGAAGAGCAGAGGT
GTCCCCGAAAGGTTTGCAGACGCCTGTGAAGGATGCTGGTGGTGGGACCGGTAGAGAGGCAGAAGCAAGAGAGCT
ACGGTTTCAGGTTGGGCACCACTGATGCCACTGGTTCTCTGCAAGGCGATTCCATGACAGAAACCGTAGCAGAAAA
CATCGTTACCACTATCCTGAAGCAGTTCACTCAGTCTCCAGAGACAGAAGCATCTGCTGATTCTTTTCCAGACAC
AAAAGTCACTTACGTGGACAGGAAAGAGCTTCTGGGGAAGGAAAAACAAAGACTGAAATAGTTGTGGAGTCTAA
ACTGACTGAGGATGTTGATGTTTCCGATGAAGCTGGCCTGGACTACCTTTTAAGCAAGGATATTAAGGAAGTGGG
GCTGAAAGGCAAGTCAGCCGAGCAGATGATAGGAGACATCAACCTCGGCCTGAAAGGGAGGGAGGGGAGAGC
AAAGGTCGTCAACGTGGAGATCGTGGAGGAGCCCGTGAGTTATGTACGCGGGGAGAAGCCGGAGGAGTTTCCGT
CCCATTCAAAGTGGAGGAGGTCGAAGATGTGTCGCCAGGCCCTGGGGGTTGGTTAAGGAGGAGGAAGGTTATGG
AGAAAGCGATGTACATTCTCAGTTAATCAGCATCGAAGGACCAAGCAGCCCCAGGAGAACACGACTCACGTGGA
AGAAGTGACAGAGGCAGGTGATTCAGAGGGCGAGCAGAGTTATTTTGTGTCCACTCCAGATGAACACCCCGGGG
GCACGACAGAGATGACGGCTCGGTGTACGGGCAGATCCACATCGAGGAGGAATCCACCATCAGGTACTCTTGGCA
GGATGAAATCGTGAGGGGACTCGAAGGAGGACACAGAAGGACGGTGCAGTGGGCGAGAAGGTTGTGAAGCCCTT
GGATGTCCCAGCGCCCTCTCTGGAGGGGGACCTGGGTTCCACTCACTGGAAAGAACAAGCTAGAAGCGGTGAATT
TCATGCCGAACCCACAGTCATTGAAAAAGAAATTAATAACCCACGAATTCCACACCTCCATGAAGGGCATCTC
CTCCAAGGAGCCCCGGCAGCAGCTGGTGGAGGTATCGGGCAGCTGGAGGAAACCTTCCCGAGCGCATGAGGGA
GGAGCTGTCCGCCCTCACCAGAGAGGGGCAGGGTGGGCCGGGGAGCGTTTCCGTGGATGTCAAGAAGGTCCAGGG
TGCTGGTGGCAGTTCCGTGACCCCTGGTTGCTGAAGTCAACGCTCTCAAACTGTGGATGCCGATCGGTTAGACCT
GGAGGAGCTGAGCAAAGATGAGGCCAGTGAGATGGAGAAGGCTGTGGAGTCGGTGGTTCGGGAGAGCCTGAGCAG
GCAACGCAGCCAGCGCCTGGCAGCCAGATGAGGAAGGTGGAGCGGAGGCCCCGGCTGCTGGCATTGCTTCAG
GCGTTGGGCCACCCGGGAGCTGTACATCCCTTCAGGCGAGAGCGAGGTTGCTGGTGGGGCCTCTCACAGCTCGGG
ACAGCGCACTCCCCAGGCCCCAGTGTGCGCCACTGTGGAGGTGAGCAGCCCCACAGGCTTTGCCAGTCACAGGT
GCTGGAGGATGTGAGCCAGGCTGCAAGGCACATAAACTCGGCCCTCTGAAGTCTGGAGGACTGAGCGAATGTC
ATATGAAGGACCCACTGCAGAAGTGGTGGAGGTAAGTGCGGGAGGTGACCTAAGTCAGGCAGCGAGCCCCGACCGG
AGCCAGCCGGTCTGTGAGGCATGTACGCTGGGTCCCGGTCAAAGTCCACTGTCCAGAGAAGTCATCTTCCTAGG
CCCTGCCCCCTGCTGTCCAGAGGCATGGGGCTCGCCAGAACCTGGCCCAGCAGAGTCTTCTGCAGATATGGACGG
ATCAGGGAGGCACAGCACATTTGGCTGCAGACAATTTATGCTGAAAAGGAGATTATTTTTCAGGGCCCCATTTT
TGCTGCAGGGAAGGTTGGTGATTATTTTGAACAGAAGAGTCAAGTGGGTACCCAGACTTCTGTGAGGCAACTCCA
GTTAGGCCCTAAAGAAGGGTTCAGTGGGCAAATCCAGTTCACAGCTCCACTTTCAGACAAGGTGGAGTTGGGTGT
CATAGGAGATTCTGTACACATGGAAGGGTTGCCAGGGAGCAGCACATCCATCAGGCACATCAGCATTGGGCCTCA
GAGGCATCAGACCACCCAGCAGATAGTTTACCATGGGCTGGTTCCCCAACTGGGGGAATCTGGTGAAGTCAAGAG
CACTGTGCACGGAGAGGGCTCAGCAGATGTGCACCAGGCCACTCACAGTCATACCTCGGGTAGACAAACCGTTAT
GACTGAAAAGAGCACCTTCCAAAGTGTGCTTTCTGAATCTCCCAGGAGGATAGTGAGGGGACACATCAGGGGC

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FIGURE 983B

AGAAATGACATCGGGTGTAGCAGATCCTTTAGGCACATTCGACTAGGTCTACAGAAACGGAAACCTCTGAACA
CATTGCCATCCGTGGACCCGTGTCCAGAACATTTGTGCTTGCTGGTTTACGCGGACTCCCCTGAGCTAGGCAAGTT
AGCAGACAGCAGCAGAACGCTAAGGCACATTGCACCAGGGCCCAAAGAAACTTCGTTTACCTTTCAGATGGATGT
GAGTAACGTAGAGGCGATCCGCAGCCGGACACAGGAAGCGGGAGCTCTCGGTGTGTCTGACCGTGGTTCTGGAG
AGACGCGGACAGTAGGAATGACCAGGCAGTTGGTGTGAGCTTTAAGGCCTCTGCTGGGGAAGGAGACCAGGCCCA
CAGAGAACAGGGCAAGGAGCAGGCCATGTTTGATAAGAAGGTGCAGCTCCAGAGAATGGTAGACCAAAGGTCGGT
GATTTTCAGATGAAAAGAAAGTTGCCCTCCTCTATCTAGACAATGAGGAGGAGGAGAATGATGGGCATTGGTTTTA
ATAAGCAGAAACATTTTGTTTTAAATGGCAGCCTGTTGGCGACGTGCCAACATCCAAAGGCCTTAACTTATTTTAA
GAGGCCGAGGGAGTCTATGAAAATCTCCCTTTTTTACTTTTTTAAAGAGTACTCCCGGCATGGTCAATTTCCCTT
TATAGTTAATCCGTAAAGGTTTCCAGTTAATTCATGCCTTAAAGGCCTGCAATTTTATTTTTGAGTTGGGACT
TTTACAAAACACTTTTTTCCCTGGAGTCTTCTCTCCACTTCTGGAGATGAATTTCTATGTTTTGCACCTGGTCAC
AGACATGGCTTGCATCTGTTTGAACTACAATTAATTATAGATGTCAAAACATTAACCAGATTAAAGTAATATAT
TTAAGAGTAAATTTTGCTTGCATGTGCTAATATGAAATAACAGACTAACATTTTAGGGGAAAAATAAATACAATT
TAGACTCTAAAAAGTCTTTTCAAAAAGAAATGGGAAATAGGCAGACTGTTTATGTTAAAAAAATCTTGCTAAAT
GATTTTCATCTTTAGGAAAAAATTACTTGCCATATAGAGCTAAATTCATCTTAAGACTTGAATGAATTGCTTTCTA
TGTACAGAACTTTAAACAATATAGTATTTATGGCGAGGACAGCTGTAGTCTGTTGTGATATTCACATTCATTT
GCACAGGTTCCCTGGCACTGGTAGGTTAGATGATTATTGGGAATCGCTTACAGTACCATTTCATTTTTTGGCACT
AGGTCAATTAAGTAGCACACAGTCTGAATGCCCTTTTCTGGAGTGGCCAGTTTCTATCAGACTGTGCAGACTTGGC
CTTCTCTGCACCTTATCCCTTAGCACCCAAACATTTAATTTCACTGGTGGGAGGTAGACCTTGAAGACAATGAAG
AGAATGCCGATACTCAGACTGCAGCTGGACCGGAAGCTGGCTGTGTACAGGAAAATTGGAAGCACACAGTGGAC
TGTGCCTCTTTAAAGATGCCCTTTCCCAACCCTCCATTTCATGGGATGCAGGTCTTTCTGAGCTCAAGGGTGAAAGAT
GAATACAATAACAACCATGAACCCACCTCACGGAAGCTTTTTTGCACCTTGAACAGAAGTCATTGCAGTTGGGG
TGTTTTGTCCAGGGAAACAGTTTATTAAATAGAAGGATGTTTTGGGGAAGGAAGTGGATATCTCTCCTGCAGCCC
AGCACCGAGATACCCAGGACGGGCTGGGGGGCGAGAAAGGCCCCCATGCTCATGGGCCGCGAGTGTGGACCTG
TAGATAGGCACCAACGAGTTTAAAGATACTGGGATGAGCATGCTTCATTGGATTCAATTTATTTTACACGTCAGTA
TTGTTTTAAAGTTTCTGTCTGTAAAGTGTAGCATCATATATAAAAAGAGTTTCGCTAGCAGCGCATTTTTTTTAG
TTCAGGCTAGCTTCTTTCACATAATGCTGTCTCAGCTGTATTTCCAGTAACACAGCATCATCACACTGACTGTGG
CGCACTGGGGAATAACAGTCTGAGCTAGCACCCCTCAGCCAGGCTACAACGACAGCACTGGAGGGTCTTCCCT
CTCAGATTACCTGGAGGCCCTCAGACCCCAAGGTGCACGTCTCCCCAGGTCTTGGGAGTGGCTACCGCAGGTA
GTTTCTGGAGAGCACGTTTTCTTCATTGATAAGTGGAGGAGAAATGCAGCACAGCTTTCAAGATACTATTTTAAA
AACACCATGAATCAGATAGGGAAAGAAAGTTGATTGGAATGGCAAGTTTAAACCTTTGTTGTCCATCTGCCAAAT
GAAGTAGTGATTGTCAGACTGGTATGGAGGTGACTGCTTTGTAAGGTTTTGTCGTTTCTAATACAGACAGAGATG
TGCTGATTTTGTTTTAGCTGTAACAGGTAATGGTTTTTGGATAGATGATTGACTGGTGAGAAATTTGGTCAAGGTG
ACAGCCTCCTGTCTGATGACAGGACAGACTGGTGGTGAGGAGTCTAAGTGGGCTCAGTTTGTATGTCAGTGTCTGG
GCTCATGACTTGTAATGGAAGCTGATGTGAACAGGTAATTAATATTATGACCCACTTCTATTTACTTTGGGAAA
TATCTTGGATCTTAATTATCATCTGCAAGTTTCAAGAAGTATTCTGCCAAAAGTATTTACAAGTATGGACTCATG
AGCTATTGTTGGTTGCTAAATGTGAATCACGCGGGAGTGAGTGTGCCCTTCACACTGTGACATTGTGACATTGTG
ACAAGCTCCATGTCTTTTAAATCAGTCACTCTGCACACAAGAGAAATCAACTTCGTGGTTGGATGGGGCCGGAA
CACAACAGTCTTTTTGTATTTATTGTTACTGAGACAAAACAGTACTCACTGAGTGTTTTTTCACTTTTCTACTGG
TGGTTTTGATATTGTTTGTTTAAGATGTATATTAGAAATGACATCATCTAAGAAGCTGATTTTGCTAAACTCCTG
TTCCCTACAATGGGAAATGTACAAAGATGTGCAAAAATAAAATCTGAGG

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FIGURE 984A

CCCGGGTATCAAAAGAAGGATCGGCTCCGCCCGGGCTCCCCGGGGGAGTTGATAGAAGGGTCCTTCCCACCCT
TTGCCGTCCCCACTCCTGTGCCTACGACCCAGGAGCGTGTGAGCCAAAGCATGGAGAATCAAGAGAAGGCGAGTA
TCGCGGGCCACATGTTTCGACGTAGTCGTGATCGGAGGTGGCATTTCAGGACTATCTGCTGCCAAACTCTTGACTG
AATATGGCGTTAGTGTTTTGGTTTTAGAAGCTCGGGACAGGGTTGGAGGAAGAACATATACTATAAGGAATGAGC
ATGTTGATTACGTAGATGTTGGTGGAGCTTATGTGGGACCAACCCAAAACAGAATCTTACGCTTGTCTAAGGAGC
TGGGCATAGAGACTTACAAAGTGAATGTCAGTGAGCGTCTCGTTCAATATGTCAAGGGGAAAACATATCCATTTT
GGGGCGCCTTTCCACCAGTATGGAATCCCATTTGCATATTTGGATTACAATAATCTGTGGAGGACAATAGATAACA
TGGGGAAGGAGATTCCAACGTATGCACCCTGGGAGGCTCAACATGCTGACAAATGGGACAAAATGACCATGAAAG
AGCTCATTGACAAAATCTGCTGGACAAAGACTGCTAGGCGGTTTTGCTTATCTTTTTTGTGAATATCAATGTGACCT
CTGAGCCTCACGAAGTGCTGCCCTGTGGTTCTTGTGGTATGTGAAGCAGTGCGGGGGCACCCTCGGATATTCT
CTGTACCAATGGTGGCCAGGAACGGAAGTTTTGTAGGTGGATCTGGTCAAGTGAGCGAACGGATAATGGACCTCC
TCGGAGACCAAGTGAAGCTGAACCATCTGTCACTCACGTTGACCAGTCAAGTGACAACATCATCATAGAGACGC
TGAACCATGAACATTATGAGTGCAAATACGTAATTAATGCGATCCCTCCGACCTTGACTGCCAAGATTCACTTCA
GACCAGAGCTTCCAGCAGAGAGAAAACCAGTTAATTCAGCGTCTTCCAATGGGAGCTGTCAATAGTGCATGATGT
ATTACAAGGAGGCCTTCTGGAAGAAGAAGGATTACTGTGGCTGCATGATCATTGAAGATGAAGATGCTCCAATTT
CAATAACCTTGGATGACACCAAGCCAGATGGGTCACTGCCTGCCATCATGGGCTTCATTCTTGCCCGGAAAGCTG
ATCGACTTGCTAAGCTACATAAGGAAATAAGGAAGAAGAAAATCTGTGAGCTCTATGCCAAAGTGCTGGGATCCC
AAGAAGCTTTACATCCAGTGCATTATGAAGAGAAGAACTGGTGTGAGGAGCAGTACTCTGGGGGCTGCTACACGG
CCTACTTCCCTCCTGGGATCATGACTCAATATGGAAGGGTGATTTCGTCAACCCGTGGGCAGGATTTTCTTTGCGG
GCACAGAGACTGCCACAAAGTGAGCGGCTACATGGAAGGGGCAGTTGAGGCTGGAGAACGAGCAGCTAGGGAGG
TCTTAAATGGTCTCGGGAAGGTGACCGAGAAAGACATCTGGGTACAAGAACCTGAATCAAAGGACGTTCCAGCGG
TAGAAATCACCCACACCTTCTGGGAAAGGAACCTGCCCTCTGTTTCTGGCCTGCTGAAGATCATTGGATTTTCCA
CATCAGTAACCTGCCCTGGGGTTTTGTGCTGTACAAATACAAGCTCCTGCCACGGTCTTGAAGTTCTGTTCTTATGC
TCTCTGCTCACTGGTTTTCAATACCACCAAGAGGAAAATATTGACAAGTTTAAAGGCTGTGTCATTGGGCCATGT
TTAAGTGTACTGGATTAACTACCTTTGGCTTAATTCCAATCATTGTTAAAGTAAAAACAATTCAAAGAATCACC
TAATTAATTTAGTAAGATCAAGCTCCATCTTATTTGTGAGTGATCAACTCATGTTAATTGATAGAATAAAG
CCTTGTGATCACTTTCTGAAATTCACAAAGTTAAACGTGATGTGCTCATCAGAAACAATTTCTGTGTCCTGTTTT
TATTCCTTCAATGCAAAATACATGATGATTTCAGAAACAAAGCATTTGACTTTCTGTCTGTGGAGGTGGAGTAG
GTGAAGGCCCAGCCTGTAACGTGTCCTTTTTCTTCCCTTAGGCAATGGTGAAGTGTGCTTACAGAGCCTAGAGGCT
CACAGCCTCCTGGAGGAAGCAGCCTCCACTTTGGATCAGGAAATAGTAAAGGAAAGCAGTGTTGGGGGTAGCGGC
ATGCAGACCCTCAGACCAGAATGGGGACATCTTGTGGTCTGCTGCCTCAGGAATCTCCTGACCCTTGTAGTCCC
TCGACTTCTCTAGACATCTAGTCTCAGTGCTAGCTTATTTGATTTTTCTCTTTTCACTTCTTATGGAGGAGAG
TGTTTAACTGAGTTAGAATGTGAAACTGACTTGCTGTGACTTATGTGCAGCTTTCCAGTTGAGCAGAGGAAAT
AGTGGCAGGACTGTCCCCAGGAGGACTCCCTGCTTAGCTCTGTGGGAGACCAACTACGACTGGCATCTTCTCTT
CCCCCTGGAAGGCAGCTAGACACCAATGGATCCTTGTGAGTTGTAACATTCTATTTCAACTTCAGGAAAGCAGCA
GTTTTCTTTTAAATTTTCTATGACCATAAAATTAGACATACCTCTCAACTTACATATGTCTTCAACATGGTTAC
CTCTGCATAAATATTAGCAAAGCATGCCAATTTCTCTTAAGTACTGAAATACATATGATAAATTTGACTGTTATT
TGTTGAGACTATCAAACAGAAAAGAAATTAGGGCTCTAATTTCTTAAAGCAAGCTCACTTGCTTTAGTTGTTAA
GTTTTATAAAAGACATGAAATTGAGTCATTTTATATATGAAAATAAGTTCTCTATCTTAGGAGTAATGTCGGCC
CACAAGGGTGCCACCTCTTGTTTTCCCTTTTTAAAACTCAGATTTTTTAAAGCCCTTTCCAAAGGTTTCAACT
GTAAAATACTTCTTTTTTACAATGTATCAACATATTTTTATTTAAGGGGAATTAACAATTGCCAGGGAAACCAGCC
AACCCAAGTTTATTATATCATTAACTTATCATAAATTCAAACCTAAGTTGCTGGACCCTGGTGTGAGGACATAA
ATCTTCCAAAGTTTTGCCTATCCTAAGAGCTGCATTTTTCTACTGCTCTTTACCTTGCAATTTAGCTAATTTAGG
AGTTTTGAGAATGTATTGGATACGCTCCAGTACATAAGGAGTTGCCGCATATTATATCAGACTGCTTTGAGAAAT
CTCATCCCTAGTCTATTGCAGTTGTTTTCTATTAGCTTACTGATTAACCTCAGTCCTGACACACCTTTTGGGAAATG
CTGATTTAACTTCTTAACTGGCAACAGTTGGAACAGTAATCAGTTTGCTAACATATTTAAAGTCTTGAATGTTG
AAGAACTCATGTGATTTACCTTTTCAACTTTTTGGAAAACGATTTAATTTATTCTAATTAGATTAAACCTATTA
ATCTATGGATTGGGTATCAAAATGAATGCCAGTCCAGATGTGCCTAGACACGAAATTGGAGCTGAGGACTCTCAC

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FIGURE 984B

GATATGCAAGTTCATCCAACGTGAAGATACCATAAGCTTTTTCTCTGAACCAGAGAAATGAAAGTCAGTTTAAGA
GGCTGATAGATCTTGGCCCTGTTAAGGCATCCACTTCACAGTTCTGAAGGCTGAGTCAGCCCCACTCCACAGTTA
GGCCAAGAATTAGATTTTAAACTTCATCTGTCTGTCCCAGTTAACTGTTAAATAAGGCCTCATCCTCCACTGAA
GAGTATGGATTGAAGGATTGTGAACTATGTTTAGTGTGATTGTGAACTTGGTGCCTAATGTTCCATGTCTGAAGT
TTGCCCCAGTGCTACACGTTGGAGTATACCTATGTGTGTGCTTTGCCACTGAAGTAAGATTTTGCCTGTATGGTA
CTGTTTGTGTTGTTAATAAAGTGCACTGCCACCCCAATGCAA

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FIGURE 985

RVSKEGSAPPPGSPGELIEGSFPPFAVPTPVPTTQERSQSMENQEKASIAGHMFVGVVIGGGISGLSAAKLLTE
YGVSVLVLEARDRVGGRTYTIRNEHVDYVDVGGAYVGPTQNRILRLSKELGIETYKVNVSERLVQYVKGKTYPFR
GAFPPVWNPIAYLDYNNLWRTIDNMGKEIPTDAPWEAQHADKWDKMTMKELIDKICWTKTARRFAYLFVNINVT
EPHEVSALWFLWYVKQCGGTTRIFSVTNGGQERKFVGGSGQVSERIMDLLGDQVKLNHPVTHVDQSSDNIIETL
NHEHYECKYVINAIPPTLTAKIHFRPELPAERNQLIQRLPMGAVIKCMMYYKEAFWKKKDYCGCMIEDEDAPIS
ITLDDTKPDGSLPAIMGFILARKADRLAKLHKEIRKKKICELYAKVLGSQEALHPVHYEKNWCEEQYSGGCYTA
YFPPGIMTQYGRVIRQPVGRIFFAGTETATKWSGYMEGAVEAGERAAREVLNGLGKVTEKDIWVQEPESKDVP
EITHTFWERNLPSVSGLLKIIGFSTSVTALGFVLYKYKLLPRS

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FIGURE 986A

GCTCTCGCGGCAGTTCAGACCTCGTGCTCGTCCCCTTCGCCTGTCTGTGTGTGGTATCCGTAGGTCCGGGGCACT
TTTTTTTTGGTGTGTGTGTGTGTGTGCGTGC GCGCGTGTGTGTGTGTGTTGGGTGTGTGTGTTTTGGGGGTTTGCCGGG
GCGCGGAGAGGAGAGCCGGGCCGAGGGGAAGGAAGGAAGCCGTAGAGCTCCCCGGTCTCGGGCTGCGTCTCCCCT
CCAGCGCTCTCCTGCCTGTGCGCTCCGACGCGGCAGCGCGGTGGCGCTGAGCGCTCCTCGGTGGGGACGCGGTG
CTCAAGCTGGGAGCAGCGAGAACCCTTTGCGGAGGCTTCCCGTGCCGCTGGACTTAGGATGCCAGGGCGTTTGA
TTTGCACCTACTGAGCCCGGAGTTCCTCCCCGGCCCTGGGAAGGGCTTGACGCGCGCGCGCGCGCGCGGCGAGCG
GCAGTAGCAGACGGAACAGCAGGCTCTCCTCTCCGAGGGGGGGCGTGAAGCGCCCCGCGCGGGCTCCCGCCCTC
ACCCTCCGGCGCTCCTGCGGCCCAAGCCACCACCTCGTAGCCCGCCTCCTTCTCTCTCGCCGCGAGCCCCAG
GCCCCGACGCTCTAGGATCGGACCCGCGCGCCCCGGATGCTTGGGGCTGCCCCGCGCGCCCCCTACAGGCGC
GACCCGCTGAGTGACCCGGAGGGGGCCCGAGCTCGCCCCAGGAGGGGCCCCCGGCTCGGGACCCCGCGCCGGAC
CTGCTGGGGAGCCGACGATGTCCGCGCAGTCCAGGCATTGACGCGCTCGACGACGCCAGGGAAGGCGGCCGGC
CGCTGCCCCGCGAGCCCTAGGCGCACAAAGCCCGCGCCCGCGCCCCGGCCCCGGCGCCCGCGACACTTTGCCG
CCTGCTCCGCGGCTCTTTGTCTCCACTTGGGGCGGGCGCCGACTCTGGGATTTGCTGCGAGAACGAGCTGGGG
GGGCGGGGGCGAGCTCTCGGTTTCCCGGCCGCCCCCGCTCGGGCTCGGCTCCCCCTCCCCCGACCTCCCCG
GCCCCGGCTCTCGGCGCTTCCACGCTCTCGGAATCACGACCCCTCCCTGCCATGTATCCGAGGGCAGACATCCG
GCTCCCCATCAACCCGGGCAGCCGGGATTTAAATTACGGTGGCTGAGTCTTGTGACAGGATCAAAGACGAATTC
CAGTTCCTGCAAGCTCAGTATCACAGCCTCAAAGTGGAGTACGACAAGCTGGCAAACGAGAAGACGGAGATGCAG
CGCCATTATGTGATGTACTATGAGATGTCTATGGCTTGAACATTGAAATGCACAAGCAGACAGAGATTGCCAAG
AGACTGAACACAATTTTAGCACAGATCATGCCTTTCTGTGTCACAAGAGCACCAGCAGCAGGTGGCGCAGGCAGTG
GAGCGCGCCAAGCAGGTCACCATGACGGAGCTGAACGCCATCATCGGGCAGCAGCAGCTCCAGGCGCAGCACCTC
TCCCATGCCACACACGGCCCCCGGTCCAGTTGCCACCCACCCGTCAGGTCTCCAGCCTCCAGGAATCCCCCA
GTGACAGGGAGCAGCTCCGGGCTGCTGGCACTGGGCGCCCTGGGCAGCCAGGCCCCATCTGACGGTGAAGGATGAG
AAGAACCACCATGAACTCGATCACAGAGAGAGAGAATCCAGTGCGAATAACTCTGTGTACCCCTCCGAAAGCCTC
CGGGCCAGTGAGAAGCACC GGCGCTCTGCGGACTACAGCATGGAAGCCAAGAAAGCGGAAGGCGGAGGAGAAGGAC
AGCTTGAGCCGATACGACAGTGATGGGGACAAGAGTGATGATCTGGTGGTGGATGTTTCCAATGAGGACCCCGCA
ACGCCCCGGGTGAGCCCGGCACACTCCCCTCCTGAAATGGGCTGGACAAGGCCCCGTAGCCTGAAAAAAGATGCC
CCCACAGCCCTGCCTCGGTGGCTCTTCCAGTAGCACACCTTCCTCCAAGACCAAAGACCTTGGTCATAACGAC
AAATCCTCCACCCCTGGGCTCAAGTCCAACACACCAACCCCAAGGAACGACGCCCCAACTCCAGGCACCAGCAG
ACCCACAGGGCTCAGGTGATGCCGGCTCGGCTCTGCGCAGCCCATCTCCATCACCAGCTCCTATGCGGCGCCC
TTCGCCATGATGAGCCACCATGAGATGAACGGCTCCCTCACCAGTCTGGCGCTACGCCGGCTCCACAACATC
CCACCCAGATGAGCGCCGCGCGCGCTGCTGCAGCCGCTGCCTATGGCCGATCGCCAATGGTGAGCTTTGGAGCT
GTTGGTTTTGACCCCTCACCCCCGATGCGGGCCACAGGCCTCCCCTCAAGCCTGGCCTCCATTCTTGGAGGAAAA
CCAGCGTACTCATTCCATGTGAGTGCTGATGGGCAGATGCAGCCCGTGCCCTTCCCCACGACGCCCTGGCAGGC
CCCGGCATCCCGAGGCACGCCCGGCAGATCAACACACTCAGCCACGGGGAGGTGGTGTGTGCCGTGACCATCAGC
AACCCACGAGGCACGTCTACACAGGTGGCAAGGGCTGCGTGAAGATCTGGGACATCAGCCAGCCAGGCAGCAAG
AGCCCCATCTCCCAGCTGGACTGCCTGAACAGGGACAATTACATCCGCTCCTGCAAGCTGCTCCCTGATGGGCGC
ACGCTCATCGTGGGCGGCGAGGCCAGCAGCTCACCATCTGGGACCTGGCCTCGCCACGCCCCGCATCAAGGCC
GAGCTGACGTCTCGGCTCCCGCCTGTTATGCCCTGGCCATTAGCCCTGACGCCAAAGTCTGCTTCTCCTGCTGC
AGCGATGGGAACATTGCTGTCTGGGACCTGCACAACCAGACCCTGGTCAGGCAGTTCAGGGCCACACAGATGGG
GCCAGCTGCATAGACATCTCCCATGATGGCACCAACTGTGGACAGGGGGCCTGGACAACACGGTGCGCTCCTGG
GACCTGCGGGAGGGCCGACAGCTACAGCAGCATGACTTCACTTCCCAGATCTTCTCGCTGGGCTACTGCCCCACT
GGGGAGTGGCTGGCTGTGGGCATGGAGAGCAGCAACGTGGAGGTGCTGCACCACACCAAGCCTGACAAGTACCAG
CTGCACCTGCACGAGAGCTGCGTGCTCTCCCTCAAGTTCGCCTACTGCGGCAAGTGGTTCTGTAGCACTGGGAAA
GATAACCTTCTCAACGCCTGGAGGACGCCTTATGGAGCCAGCATATTCCAGTCTAAAGAATCCTCGTCTGTCTTG
AGTTGTGACATTTTCAGCGGATGACAAATACATTGTAACAGGCTCTGGTGACAAGAAGGCCACAGTTTATGAGGTC
ATCTACTAAACAAGAACTCCAGCAGGGCTGTCAAACCTCTGGGAGAAACCGACTCGGCTCTGACAGGGAGACCCCC
AGGCGAGGGGGCCCCGAGGATGGCGGAGGATGGGCCGAGGCAGCCGAGCGTTTCAAGGCTGCGCTCCGGCCGGCTG
AGAGGGCACGTGCCCCGTACAGTCTGGACTCCTGGGCCTGGATTGATGTGTCTCACAGACTCGGAAGGGTTCTG

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FIGURE 986B

CTCCTCCTCCTCCCCCTGAACAATGCTGGCAGTTGCTACAAATAGATTTATTGGAGGCTTATGGCTCCGGTTCCC
CCACAGACCCGCTCATGAGTCTCTGTTTGTCTTCCCTTTTCTTTTGCCCTGTCCCTCACCTTGGGTCGGGGGTG
CTGGAGTGGACCACAATGTTGTGCTGGGGGATGGGGGGTCTCTCTTTGCCGATTGTGCAGTGCACAAGATTGT
GAAAAATGTAAATAACAGACTCCTATTGCGGACTGATCAGTGGGAGAGGAGGCCCTTCCCACCGGAAACTCTGA
GTGTGTATTTGCCTGCTGTATTTGTAATCCACTCGTGGTGGTGGCTTTTTTTTTTTTTTTTTTAAATAAACAG
ATGCTCTCACCTGGGAAGAGGAGACAGGGAGGGGAACCAATTGAAGAAAGAGGAGAAAAGTCTTAGAGTGTGGAA
AAGGCAACCAGGTTGGCCGTAAAGGTGCCTGCTGGAATGCGTGTGCCTCCACACGGGTCTGGGCATCCGGACTGAT
AACCAGCCGGCCAGACTGAGGGATGGAAGGCACTGAGATGGGGGCCCGTCCAGGCGGACACCCGCAGAAATGGAG
CTTTCTGTGGTCTCTTGCACTCTGGCTGCCTCTTGCCCTCTCTGTGTCTCTCTTTCTTGGTCTCTCCCTCTCTCC
TCCTCAGCCTGGTCTTTCTCTTTGGTGCACACTTAGTTATTGTTGTGAGCAATGGAAGTTCAAAGGAACTCCCTC
TCCAGCTCTTCTGAATCTTGGGACACAGCCTAAAAAGGACAAAAAGTTAGAAGACAGCATAGCAACTCAGCTCAG
GGAGCTACCAGAGAAAAATAGCAACTGATGTGGGTGCTTTTTTTTTTTTTTAAATTTGAATAAAAAAGAATTAGAAG
TGATGTCCTTTTATAAAATGCCTTCTCCCCCTTCCCGCCTACAGTCTCTTCTCTCCCCCTTAGAGGGGGGAAAGT
GTATAAACCTACAGGGTTGTGAGTCTGAAAAGAGGATCCCCCTCACCCCAACCCTGGGCAGAGCAGTGGGGGTTG
GGGGGTGGGAGAGGGGGACACAGATCCTGGCACACTGTGGATATTTCTTGCAGATTGCAGTCTCTTGTGGCCCAA
ACAGGTTAGGTAGACTATCGCCTCTGGCAGGTGCCACCTTTTGGTACCAACATGTTCTGAGGTGTTAGGATTTGG
GTTGGGTTTTTTTTGTTTGTTTTTTTTTTTTCCTTTTTGGTCTTTTTTTTTTTCTCCTTTTAAAGAAAAGCTAAAGG
CCGCTGTGAGTCCTGGTGGCAGGCTCTCCATGGATGTAGCATATCGAAGATAATTTTATACTGCATTTTATGG
ATTATTTTGTAAATGTGTGATTCCGTCTGCTGAGGAGGTGGGAGGGGCTCCAGGGAAAGCCACCCACCTTCAGTGA
GGTTGCTCCCCAGCTGAGCGCACCGGGCATGGGATGTGGAGGCTGGCGACACACCTGTGCCTCTCCAAGGCTGG
GCGCGTGGGGCGTCCAGAGTCTCTCTGGGTCTCAGATGTCCATCTGCCACCTCTTGTTAAGGCTCTAGCCAGAAG
GGAGGGTGAGGGTAGAAGAAAGTTATTCTC

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FIGURE 987A

CTGTGCAACGGGGTCAAACGACTGTGGTGACAACAGCGACGAAAGCCACAGCAGAATTGCCGGCCCCGGACGGGT
GAGGAGAACTGCAATGTTAACAACGGTGGCTGTGCCCAGAAGTGCCAGATGGTGCGGGGGCAGTGCAAGTGTACC
TGCCACACAGGCTACCGGCTCACAGAGGATGGGCACACGTGCCAAGATGTGAATGAATGTGCCGAGGAGGGGTAT
TGCAGCCAGGGCTGCACCAACAGCGAAGGGGCTTTCCAATGCTGGTGTGAAACAGGCTATGAACTACGGCCCCGAC
CGGCGCAGCTGCAAGGCTCTGGGGCCAGAGCCTGTGCTGCTGTTCCGCAATCGCATCGACATCCGGCAGGTGCTG
CCACACCGCTCTGAGTACACACTGCTGCTTAACAACCTGGAGAATGCCATTGCCCTTGATTTCCACCACCGCCGC
GAGCTTGTCTTCTGGTCAGATGTCACCCTGGACCGGATCCTCCGTGCCAACCTCAACGGCAGCAACGTGGAGGAG
GTTGTGTCTACTGGGCTGGAGAGCCCAGGGGGCTGGCTGTGGATTGGGTCCATGACAACTCTACTGGACCGAC
TCAGGCACCTCGAGGATTGAGGTGGCCAATCTGGACGGGGCCACCAGGAGGTGTTGCTGTGGCAGAACCTGGAG
AAGCCCCGGGCCATTGCCCTTGCATCCCATGGAGGGTACCATTACTGGACAGACTGGGGCAACACCCCCGTATT
GAGGCCTCCAGCATGGATGGCTCTGGACGCCGCATCATTGCCGATACCCATCTCTTCTGGCCCAATGGCCTCACC
ATCGACTATGCCGGGGCGCCGTATGTACTGGGTGGATGCTAAGCACCATGTCATCGAGAGGGCCAATCTGGATGGG
AGTCACCGTAAGGCTGTCTATTAGCCAGGGCCTCCCGCATCCCTTCGECATCACAGTGTGTTGAAGACAGCCTGTAC
TGGACAGACTGGCACACCAAGAGCATCAATAGCGCTAACAAATTTACGGGGAAGAACCAGGAAATCATTGCGAAC
AAACTCCACTTCCCTATGGACATCCACACCTTGACCCCCAGCGCCAACCTGCAGGGAAAAACCGCTGTGGGGAC
AACAACGGAGGCTGCACGCACCTGTGTCTGCCAGTGGCCAGAATAACCTGTGCCTGCCCACTGGCTTCCGC
AAGATCAGCAGCCACGCCTGTGCCAGAGTCTTGACAAGTTCCTGCTTTTTGCCCGAAGGATGGACATCCGTCGA
ATCAGCTTTGACACAGAGGACCTGTCTGATGATGTCATCCCACTGGCTGACGTGCGCAGTGTGTGGCCCTTGAC
TGGGACTCCCGGGATGACCACGTGTACTGGACAGATGTCAGCACTGATACCATCAGCAGGGCCAAGTGGGATGGA
ACAGGACAGGAGGTGGTAGTGGATACCAAGTTGGAGAGCCAGCTGGCCTGGCCATTGATTGGGTACCAACAAA
CTGTACTGGACAGATGCAGGTACAGACCGGATTGAAGTAGCCAACACAGATGGCAGCATGAGAACAGTACTCATC
TGGGAGAACCCTTGATCGTCCTCGGGACATCGTGGTGGAAACCATGGGCGGGTACATGTATTGGACTGACTGGGGT
GCGAGCCCCAAGATTGAACGAGCTGGCATGGATGCCCTCAGGCCGCCAAGTCATTATCTCTTCTAATCTGACCTGG
CCTAATGGGTAGCTATTGATTATGGGTCCCAGCGTCTATACTGGGCTGACGCCGGCATGAAGACAATTGAATTT
GCTGGACTGGATGGCAGTAAGAGGAAGGTGCTGATTGGAAGCCAGCTCCCCACCCATTTGGGCTGACCCCTCTAT
GGAGAGCGCATCTATTGGACTGACTGGCAGACCAAGAGCATACAGAGCGCTGACCGGCTGACAGGGCTGGACCGG
GAGACTCTGCAGGAGAACCTGGAAAACCTAATGGACATCCATGTCTTCCACCGCCGCCGGCCCCCAGTGTCTACA
CCATGTGCTATGGAGAATGGCGGCTGTAGCCACCTGTGTCTTAGGTCCCCAAATCCAAGCGGATTACAGCTGTACC
TGCCCCACAGGCATCAACCTGCTGTCTGATGGCAAGACCTGCTCACCAGGCATGAACAGTTTCCCTCATCTTCGCC
AGGAGGATAGACATTGCGATGGTCTCCCTGGACATCCCTTATTTTGCTGATGTGGTGGTACCAATCAACATTACC
ATGAAGAACACCATTGCCGTTGGAGTAGACCCCCAGGAAGGAAAGGTGTACTGGTCTGACAGCACACTGCACAGG
ATCAGTCGTGCCAATCTGGATGGCTCACAGCATGAGGACATCATCACCACAGGGCTACAGACCACAGATGGGCTC
GCGGTTGATGCCATTGGCCGGAAGTATACTGGACAGACACGGGAACAAACCGGATTGAAGTGGGCAACCTGGAC
GGGTCCATGCGGAAAGTGTTGGTGTGGCAGAACCTTGACAGTCCCCGGGCCATCGTACTGTACCATGAGATGGGG
TTTATGTACTGGACAGACTGGGGGGAGAATGCCAAGTTAGAGCGGTCCGGAATGGATGGCTCAGACCGCGCGGTG
CTCATCAACAACAACCTAGGATGGCCCAATGGACTGACTGTGGACAAGGCCAGCTCCCAACTGCTATGGGGCCGAT
GCCCCACCGAGCGAATTGAGGCTGCTGACCTGAATGGTGCCAATCGGCATACATTGGTGTACCCGGTGCAGCAC
CCATATGGCCTCACCTGCTCGACTCCTATATCTACTGGACTGACTGGCAGACTCGGAGCATCCACCGTGTCTGAC
AAGGGTACTGGCAGCAATGTCATCCTCGTGAGGTCCAACCTGCCAGGCCTCATGGACATGCAGGCTGTGGACCGG
GCACAGCCACTAGGTTTTAACAAGTGCGGCTCGAGAAATGGCGGCTGTCTCCACCTCTGCTTGCCTCGGCCTTCT
GGCTTCTCCTGTGCCTGCCCCACTGGCATCCAGCTGAAGGGAGATGGGAAGACCTGTGATCCCTCTCCTGAGACC
TACCTGCTCTTCTCCAGCCGTGGCTCCATCCGGCGTATCTCACTGGACACCAGTGACCACACCGATGTGCATGTC
CCTGTTCTCTGAGCTCAACAATGTCTATCTCCCTGGACTATGACAGCGTGGATGGAAAGGTCTATTACACAGATGTG
TTCTTGGATGTTATCAGGCGAGCAGACCTGAACGGCAGCAACATGGAGACAGTATCGGGCGAGGGCTGAAGACC
ACTGACGGGCTGGCAGTGGACTGGGTGGCCAGGAACCTGTACTGGACAGACACAGGTGCAAAATACCATTGAGGCG
TCCAGGCTGGATGGTTCTTCCGCAAGTACTGATCAACAATAGCCTGGATGAGCCCCGGGCCATTGCTGTTTTTC
CCCAGGAAGGGGTACCTCTTCTGGACAGACTGGGGCCACATTGCCAAGATCGAACGGGCAAACTGGATGGTTCT
GAGCGGAAGGTCTCATCAACACAGACCTGGGTGGCCCAATGGCCTTACCCTGGACTATGATACCCGCAGGATC

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FIGURE 987B

TACTGGGTGGATGCGCATCTGGACCGGATCGAGAGTGCTGACCTCAATGGGAAACTGCGGCAGGTCTTGGTCGGC
CATGTGTCCCCACCCCTTTGCCCTCACACAGCAAGACAGGTGGATCTACTGGACAGACTGGCAGACCAAGTCAATC
CAGCGTGTTGACAAATACTCAGGCCGGAACAAGGAGACAGTGCTGGCAAATGTGGAAGGACTCATGGATATCATC
GTGGTTTCCCTCAGCGGCAGACAGGGACCAATGCCTGTGGTGTGAACAATGGTGGCTGCACCCACCTCTGCTTT
GCCAGAGCCTCGGACTTCGTATGTGCTGTCTTGACGAACCTGATAGCCAGCCCTGCTCCCTTGTGCTGGCCTG
GTACCACCAGCTCCTAGGGCTACTGGCATGAGTGAAAAGAGCCCAGTGCTACCCAACACACCACCTACCACCTTG
TATTCTTCAACCACCCGACCCGCACGTCTCTGGAGGAGGTGGAAGGAAGATGCTCTGAAAGGGATGCCAGGCTG
GGCCTCTGTGCACGTTCCAATGACGCTGTTCTGTCTGCTCCAGGGGAAGGACTTCATATCAGCTACGCCATTGGT
GGACTCCTCAGTATTCTGCTGATTTTGGTGGTGATTGCAGCTTTGATGCTGTACAGACACAAAAATCCAAGTTC
ACTGATCCTGGAATGGGGAACCTCACCTACAGCAACCCCTCCTACCGAACATCCACACAGGAAGTGAAGATTGAA
GCAATCCCCAAACCAGCCATGTACAACCAGCTGTGCTATAAGAAAAGAGGGAGGGCCTGACCATAACTACACCAAG
GAGAAGATCAAGATCGTAGAGGGAATCTGCCTCCTGTCTGGGGATGATGCTGAGTGGGATGACCTCAAGCAACTG
CGAAGCTCACGGGGGGGCTCCTCCGGGATCATGTATGCATGAAGACAGACACGGGTGTCCATCCAGGCCAGCTCT
GGCTCCCTGGATGACACAGAGATGGAGCAGCTGTTACAGGAAGAGCAGTCTGAGTGTAGCAGCGTCCATACTGCA
GCCACTCCAGAAAAGACGAGGCTCTCTGCCAGACACGGGCTGGAAAACATGAACGCAAGCTCTCCTCAGAGAGCCAG
GTCTAAATGCCCACATTCTCTTCCCTGCCTGCCTGTTCTTCTCTCTTTATGGACGCTCTAGTCCCTTGTGCTCGCTT
ACACCGCAGGCCCGCTTCTGTGTGCTTGTCTCTCTCTCTCTCCACCCCATAACTGTTCTTAAGCCTTCACCGG
AGCTGTTTACCACGTGAGTCCATAACTACCTGTGCACAAAGAAATGATGGCACATCACGAGAATTTAGACCTGGAT
TTTACCATGAACCTCACATCTTGTACTCCATCCTGGGCCCCCTGAAACTGCTTATTCTGTGATTCTCTACCAGCGT
AGAGCTCCACCTCCCCCTTTCCCCAGTACCCTCAGTGCTGCTTCTCAGTGCTGATGCAGCTGATGACCCAGGACT
GCGCTCTGCCCCATCACAGCCAGCATGACTGCTTCTCTGAGAGAACTTGCCCATCAGGGGCTGGGACATGGGGGT
GTGGGTAAAGACAGGGATGAAGGATAGAGGCTGAGAGAAGAAGGAAGAATCAGCCCAGCAGGTATGGGCATCTGG
GAAACCTCCAGCCTCAAGTGTGTTGGTAACATGAAAAAGCTCTGGGGGGTAGTTGGATCTGGGTGTCTGGTCCAT
TGCTGGCAGTGGACATTATTCTTGGCCCTAAGAGACACTGCCTTTTCAGCAGCAGATACTGGTGAGATGGGGGTGG
CTCAGGCTGTTCTTCTCTCTCTAGAAATGTCTGGAGCTGTTTCTACATTAGATAACTGGGTCCCTATCACAAAG
GCTACTGGCTAATAGGAATTCCCTCCTGGTGCCACCCTGGCCAGTACCTTTCTAAGTCTTTGCTCAAATTAAC
CAGGTTGTGAGCCAGTGGCTTGAGTGAATGTTAGGCCTTGGGGGCTGAGTCTCTGAAAAGTCTAAGAAGCTCTGC
CTAGACCAAATATGGTATACCTCCTGACCCCTCTCTCCCTCATGTCTGGGATTCTGGGGAAGAGACCTAGAAAC
AAGCTTTCAAAGAAAAACCAGAAGTTGTCATAAATGGTCAGAAAGAACGATCAGGTTGGAGACTTGGGAAACCCA
GGGCTTAAAGAGAAGTATCCATGAGGGTCAAACCTCTGTTGAACTTCTATGTTCTTTCTCAAGTGCTCAGGGA
TCTAAGTTAGTGGACAGCAAGCCTGTGGCTACGGGGTGGTGATGTTCTCTTCCAGCTGTCCCTCAGCTAAGGG
GCTTAGTTTCCATGTGGGATGCCATCACTTGGTTTATGCTCATTACACAAAGGGGCACGTGTCTCAGCCTGGTAT
CAGGGAAATTGAGACTTATTTTTGCCCTAAACGCTCTCCCTAGCTGTTCTTCTGTTGGGTTTTTTTTGTTTGT
TTGCCTAATTGCTTTTTCTGACCAAGCCTTGTGGCACCAGCAATCTCCAAAGTCTGTGGTGGGAGGGCTGAAT
AAATAAAAATACAAAGAGGTGGGTAAGGAGTAGGAAGGTAGAGAGCACCCTGATGAGGCCCTCCTAGCCCATGG
CAGACCCAGACCTCTTCTCCCCAGGAATTAGAAGTGGCAGGAGAGAACAACAGGGGCTGGGAATGGAGGGGAGA
ATTTCTAGGGGAAGTTTCTGAGTTGAACTTCTCTGTGGTTACTGGTATTGAGAAATCAGCTACCAAAGTGAA
AAAGGACAAGATCAATTCTTTTCTAGTCAGTTCTAAGACTGCTAGAGAGAGATACCAGGCCCTTAGCCTTGCTCT
CAGTAGCGTCAGCCCCAGTTCTGAGCCTCCCCACATTACACTTAACAAGCAGTAAAGGAGTGAGCACTTTGGGTC
CTTAGACTCATGTCTGGGGAGGAAGAGCAAGTAGAAAAGTGGCATTCTTCTTGATTGGAAAGGGGGAAGGATCTTA
TTGCACTTGGGCTGTTTCAGAATGTAGAAAGGACATAATTTGAGGAAGTATCTATTGAGCACTGATTACTCTGTA
AAAAGCAAAATCTCTCTGTCTTAACTAATGGAAGCGATTCTCCCATGCTCATGTGTAATGGTTTTAACGTTACT
CACTGGAGAGATTGGACTTTCTGGAGTTATTTAACCCTATGTTTCAGTATTTTAGGACTTTATGATAATTTAATA
TAAATTTAGCTTTTTCTTAATC

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FIGURE 988

LCNGVND CGDNS DES PQQNC RPRT GEENC NVNNGGCAQKCQMV RGAVQCTCHTGYRLTEDGHTCQDVNECAEEGY
CSQGCTNSEGAFQWCWETGYELRPDRRSCKALGPEPVLLFANRIDIRQVLP HRSEY TLLLNNLENAIALDFHRRR
ELVFWSDVTLDRI LRANLNGSNVEEVVSTGLES PGGLAVDWVHDKLYWTD SGT SRIEVANLDGAHRKVLLWQNL E
KPRAIALHPMEGTIYWTDWGNTPRIEASSMDGSGRRIIADTHLFWPNGLTIDYAGRRMYWVDAKHHVIERANLDG
SHRKAVISQGLPHPF AITVFEDSLYWTDWHTKSINSANKFTGKNQEII RNKLHFPMDIHTLHPQRQPAGKNRCGD
NNGGCTHLC LPSGQNYTCACPTGFRKISSHACAQSLDKFLLFARRMDIR RISFDTEDLSDDVIPLADVRS AVALD
WDSRDDHVYWTDVSTD TISRAKWDGTGQEVVVDTSLESPAGLAIDWVTNKLYWTDAGTDRIEVANTD GSMRTVLI
WENLDRPRDIVVEPMGGYMYWTDWGASPKIERAGMDASGRQVI ISSNLTPNGLAIDYGSQRLYWADAGMKTIEF
AGLDGSKRKVLIGSQLPHPFGLTLYGERIYWTDWQTKSIQSADRLTGLDRETLOENLENLMDIHVFHRRRPPVST
PCAMENGGC SHLCLRSPNPSGF SCTCPTGINLLSDGKTCSPGMNSFLIFARRIDIRMVSLDIPYFADVVPINIT
MKNTIAVGVD PQEGKVYWS DSTLHRISRANLDGSQHEDIITTGLQTTDGLAVDAIGRKVYWTD TGTNRIEVGNLD
GSMRKVLVWQNLDS PRAIVLYHEMGFMYWTDWGENAKLERSGMDGSDRAVLINNNLGWPNGLTVDKASSQLLWAD
AHTERIEAADLNGANRHTLVSPVQHPYGLTLLDSYIYWTDWQTRSIHRADKGTGSNVILVRSNLPGLMDMQAVDR
AQPLGFNKC GSRNGGCSHLCLPRPSGFSCACPTGIQLKGDGKTCDPSPETYLLFSSRGSIRRISLDTSDHTDVHV
PVPENNNVISLDYDSVDGKVYYTDVFLDVIRRADLNGSNMETVIGRGLKTTDGLAVDWVARNLYWTD TGRNTIEA
SRLDGSCRKVLINNSLDEPRAIAVFPRKGYLFWTDWGHIAKIERANLDGSEKVLINTDLGWPNGLTLDYDTRRI
YWVDAHLDRIESADLNGKLRQVLVGHVSHPFALTQQDRWIYWTDWQTKSIQRVDKYSGRNKETVLANVEGLMDII
VVSPQRQTGTNACGVNNGGCTHLCFARASDFVCACPDEPDSQPCSLVPGLVPPAPRATGMSEKSPVLPNTPTTTL
YSSTTRTRTSLEEVEGRCSERDARLGLCARSND AVPAAPGEGLHISYAIGGLLSILLIILVVIAALMLYRHKKSKF
TDPGMGNLTYSNPSYRTSTQEVKIEAIPKPAMYNQLCYKKEGGPDHNYTKEKIKIVEGICLLSGDDAEWDDLKQL
RSSRGGLLRDHVCMKTD TVSIQASSGSLDDTEMEQLLQEEQSECSSVHTAATPERRGSLPDTGWKHERKLSSESQ
V

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FIGURE 989

GGCACGAGGGTTCTCCTTCGCTGCCCCAGCTCAGAGGATGATGTGTTTCATCCCCACTGTGAGGGAAGTGCAGTG
TCCAGAGGCCAATATTGATACAGCCCTTTGTAAGGAAAGTCCGGGGCTCTGGGGAGCCAGCATCCTGAAGGCAGG
TGCTGGGGTCCCTGGGGAGCAGCCTGTGGACCTTAACCTGCCTTTGGAAGCTCCCCAATTTCAAAGGTCAGAGT
GCATATTCAGGGTGCTCAGGTTGAAAGTCAAGAGGTCACATACACAGCATAGTGACACCAGAGTTTGTAGATCT
CTCAGTACCCAGGACTTTTTCCACTCAGATTGTGCGGGAATCAGAGATCCCCACGTCAGAGATTCAAACACCTTC
GTACGGATTTTCCTTATTAAAAGTAAAATCCAGAGCCCCACACGCAGGCTAGAGTGACACAACAATGACTCA
ACACTCTAGGACTCAGGAGGGCACAGAAGAGGCTCCCATACAAGCCACCCAGGAGTAGACTCCATTTCTGGAGA
TCTCCAGCCTGACACTGGAGAACCATTGAGATGATCTCTTCCAGCGTCAATGTACTGGGACAGCAAACACTCAC
ATTTGAAGTTCCTTCTGGCCACCAGCTTGCAGACAGCTGTTTCAGATGAGGAGCCAGCAGAAAATTCTTGAGTTTCC
CCCTGATGATAGCCAAGAGGCAACCACACCACTGGCAGATGAAGGCAGGGCTCCAAAAGACAAAACCAGAAAGTAA
AAAATCTGGTCTGCTCTGGTTTTGGCTTCCAAACATTGGGTTTTCTCTTCTGTTGATGAGACAGGTGTTGATTC
CAAAAATGACGTCCAGAGATCTGCTCCCATTCAAACACAGCCTGAGGCACGACCAGAGGCAGAACTGCCTAAAAA
ACAGGAGAAGGCAGGCTGGTTCCGATTTCCCAAATTAGGGTTCTCCTCATCTCCTACCAAGAAAAGCAAAAGCAC
CGAAGATGGGGCAGAGCTGGAAGAACAAAACTTCAAGAAGAAACAATCACGTTTTTTGATGCCCGAGAAAGTTT
CTCCCCTGAAGAGAAGGAAGAGGGTGAACCTGATCGGGCCTGTGGGCACTGGGCTGGACTCCAGAGTGATGGTGAC
ATCCGCGGCAAGAACAGAGTTAATCCTGCCCAGCAGGACAGAAAAGCTGACGATGAAAGCAAAGGGTCAGGCCT
GGGACCAAAATGAAGGCTGAGAGGTATGGCTCATCGGTACAAGAGAGATGCAAAAACTAAGTTGGAAAGTAAAGG
CTACACACACATATGGAGCACCCCATCCACAGCACATTACATCCACCTCACTTCACAGAACCGGAGAACAGAGCA
GAAATGACCAGAACACCTTTGTCAACATCACACAGCCCTCCTAAATGGAACCAAAGCTTCCCAGCTCCCTCAA
GCTTTGGATGCAAGAAGGCACCCTGACTTCCACAAGACACCAGAATTCACACGGTACTCAGAGGCACCTGCTGGG
GAAGTTTGTGGTCTTTATTAGATAAATTTCCAGAGACCTGTCCATAATACCCAACAGAACATGACTGTTTCTTT
GAGGAAAAGGGTTATAATGTCTGTGGTGTACAAGTCGTTTTTGGTATAACTTCTTCTCTGCTGCTGCTTCCCG
GCAAAACATAGTTTTCTATTTTCCAGGCAGAGTGCGGTATATTCCAGGAAACACTGTTTCTTACTCACTTAGCTTAC
TTCTTTGTTGAATGCCTCACTAATGGCAAGTTTCAAGATGTTTTGGGTGACAATGCACACATGCTGGGCAAAAGG
GTGATGGCCAGTGGCTGGCAGCTGGGCCAGCAGAAGCTAGGACATCTGTGAGTTGTCATTCTCATCTATCCATGT
CCACTGGCCTGCCAGCATCCGCCAGTGCCTTGCCAGTGTGCACGGTCCCACACTGTGGCCCTGAGTCCCCTAAT
GTACACGCTGCAGCCAGAAATGCAGATGGAGCTGGCTTGGCTGTTCCCTGGATGGGCAATAAAGAAAGTGCTGCAT
CCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 990A

AATTGCGGCCGCTCGACGCTGCGAGAAGACGACAGAAGGGGGTTGCATGTACTGTATGTGGAGCAGTGTACAGT
GAAGCGGAGGCAGAGCGGCTCCGCGAGCTTCTCTCCACTTTCCCATAGAGAAACCCTGACTGGCCGCTGAGGGCT
AGCTACACACACGCCCTCACGCCCCGGCGAGCCCGCGAGGTCACATATCATATGACAAAGGCTTTGCCGCAGTTCAT
CTTCTCCCTGTGTACTTTCCATTTGCCTTCCTGGAATCCTGCTGCATCACAGAAGCTGGAAGTTCTGATGTTCC
ACTGAAATCACAATGGAAAGTCTTGACTTGACTGGTCACAGTAATGAAAGGCAGTAATAGAAATAAGGATCATT
AGCAGAAGGAGAAGGGGTTGGAAAACGACCAAAACGAAAGTGTCTTCAGTGGCATCCATTGCTAGCAAAAGAACT
TCTTGATTTTTTCAGAAGAGGAAGAAGAGGAAGACGAAGAGGAGGATATTGATAAGGTTCAACTTCTTGGGGCCGA
TGGCCTAGAGCAAGATGTTGGTGAAACTGAAGATGATGAATCACCAGAGCAGCGAGCCCGGAGACCAATGAATGC
ATTTCTTTTATTTTGCAAACGCCATCGCTCTCTTGTACGTCAGGAACACCCCAGGCTTGATAACCGAGGTGCTAC
CAAGATACTAGCTGATTGGTGGGCTGTTCTTGATCCAAAGGAAAAGCAGAAATACACAGACATGGCCAAGGAGTA
TAAGGATGCATTTATGAAAGCAAATCCTGGCTACAAATGGTGTCTTACCACAAACAAGCCTGTGAAATCCCCAAC
ACCCACTGTCAATCCACGAAAGAACTTTGGGCCCTTCCCATCTGACTCTTCAAGAGACTTGCCAAGCCCCAAGAA
AGCAAAGACTGAAGAAATGCCTCAGCTTAACTTTGGAATGGCTGATCCTACTCAAATGGGAGGCCTGAGTATGCT
GCTGTTAGCTGGAGAACATGCTCTTGGCACACCAGAGGTATCCTCTGGCACATGCAGGCCTGATGTTTCAGAATC
TCCTGAATTACGTCAGAAGTCACCATTTGTTTCAGTTTGCCGAGATATCTTCAAGTACGTCCCCTCTGATGCTTC
TACAAAGCAGTGTCAAACATCTGCCTTGTTCAGTTTGAGAGATTTCTTCAAACACTTCGCAGTTGGGTGGTGC
TGAGCCTGTAAACGCTGTGGAAAGTCTGCACTCTTTCAACTGGCAGAGATGTGCCTGGCATCAGAAGGGATGAA
AATGGAAGAATCAAAGCTAATAAAAGCAAAGAATCCGATGGTGGAGAATTAAGAATTAGAGAAGGGAAAGGA
AGAAAAAGAAATTAATAATGGAGAAAACAGATGAACTAGGTTACAGAAGGAAGCAGAATTTGAAAAATCGGCTAA
GGAAAATTTAAGAGATTCTAAGGAATTGAGAAATTTTGAGGCATTGCAAATAGATGACATAATGGCTATAAAAAAT
GGAAGATCCCAAAGAAATTAGAAAAGGAAGATTAGAAGAAGATCACAAATGTAGTCATTTTCTGATTTTCTTA
TTCTGCCAGTAGCAAGATAATAATTAGTGATGTTCCAGTAGAAAAGGATCATATGTGCCATCCTCATGGAATTAT
GATCATTGAGGATCCCGCAGCATTAAACAAGCCAGAAAAGCTAAAAAAGAAAAAGAAAAAGCAAAATGGATCG
ACATGGAATGATAAATCCACACCCCAAGAAGACTTGCAAAAAGAGGCAGTCTTCGGAATCTGACATTGAGAGCGT
CATATATAACCATGAAGCCGTGCAAAAAGGAGACTGGGGCATAGAGAACTTGAGATAACCCCTCGCAAGAAGGT
CCGCACATCCTCAAGTGGCAAGGGAAGCATTGTTGGATGCCAAGCCACCAAGAAAAAGTGAATCAAGAGAGAA
GAAATGTCAAAGGAGAAATCCTCAGACACCACCAAGAGTCAAGACCTCCAGATTTTATTAGTATTTCTGCTAG
CAAGAACATTTCTGGTGAGACACCAGAGGGTATAAAGCAGAACCATGACCCCTATGGAAGATGCACTACCACC
CAGCCTATCAGGACAGGCCAAGCCTGAGGACAGTGACTGTACAGAAAAATAGAACTTGTGGTTCCAGGAAATC
CGAGAGGTCTTGCAAAGGTGCTCTTTATAAAACCCCTGGTGTCTGAGGGCATGCTCACCTCTCTGCGAGCTAATGT
TGACAGAGGAAAACGAAGCTCAGGAAAAGGAACTCCTCTGATCATGAAGGGTGTGGAATGAAGAAAGCTGGAC
ATTTAGTCAGAGTGGGACCAAGTGGGAGCAAGAAGTTCAAGAAGACAAAGCCAAAAGAAGACTGTCTCCTTGGCTC
CGCAAAGCTGGATGAAGAATTTGAAAAAAATTCACAGCCTCCCTCAATATAGTCTGTTACATTTGACCGGAA
ATGTGTACCTGTCCCAAGAAAAAAGAAGAAGACTGGAATGTGTCTCAGAACCAGCTAAAACCAGCAAAGGAAG
TGGGGATAAATGGTCAAACAAGCAACTCTTCTTGGATGCCATTACCCCTACAGAAGCCATATTTTCAGAAGACAG
AAACACCATGGAGCCTGTTTATAAGGTTAAAAATATCCCATCCATTTTCAACACTCCAGAGCCAACAACAACGCA
AGAACCTTTGGTGGGCAGCCAAAAGAGAAAAGCAAGGAAAACCAAGATTACACACCTTGTGAGGACAGCAGATGG
CCGGGTATCACCAGCAGGAGGTACTTTGGATGACAAACCAAGGAACAACCTGCAGAGGAGTCTCCCTAAAGCAAC
TGAGACAGACTGCAATGACAAATGCTCACACAACACCGAGGTGCGGGAGACGCGGAGCAGTACTCCAGAAATGCC
TGCCGTGTCTGCGTTCTTTAGCCTCGCTGCGCTGGCTGAAGTGGCAGCCATGGAAAATGTGCACAGAGGTGAGAG
GTCAACTCCGCTCACCCATGATGGACAGCCAAAAGAAATGCCGCAGGCTCCTGTACTTATTTCTGCGCTGACCA
GTGAAGCGCCCTTTTATTGTAAAACATTGTGCTTTACCTACTACCCTAGCCTTGTCTTTACCGAGGGATGCTAGT
GAGTCCAAGTGGTGGAAAATATAGACTGCAAACAAGTGCTTGTGCCCCACACGGCCCAGATTCACTTGAAGCAG
AAGTTAGCATCCTGGGCCAGTTTGTCTCTCAGAACCCAGAATCTTTGAGGGTAAGGTTATCTGTCTGATACTGA
GCAGAAACAGAATGATCCTGGAGCTTTGCTTTCTATTGAAGGCTTTTGACGGTAATAGGTGGTAACTTGGTAAAA
GGCTGCCTTTACTGTAGCTCACCCAGCATCTCTTTTACCAACCAGAGAGTGTGAACTAGTTTCATATATTACCT
AGTTATTCTTTCAAACAAAACAAAAAACAACAACTGACGCACTGCACTAGTTATTATTAGATATTCTTAG
TCTTTTTTGTACATGGAGATTTAAGTTAAGATGGTTTATATAATAGGTTATACCTACATTTATATTGTAGAATA

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FIGURE 990B

AATATTAAAAAGCCTGTTCCAGAGACTCCCAAGCAGCCTGGGCAGGCAGATGTACCATTGTTAGTGGTGTATGCT
CGGCCTCGTGGTCCATATATTCTGCACCTTTTATATTTGCCACCAGAATGGTAGTTTGCTGGCAAAAAAAAAAAAA
AGAGAGAGAGAAAAAATTACAACCTTTACAATCTGAATTTTTTTCTTAGCCTTGAGTGACCAAGAAGAATTTGCT
TGAGGCAAATTTGTGGCAAATATTTTCCCAGACAGGGGAAGAGTCCTGCAGATTACAGATTACTGGTGTTCATG
CCTTGAGGATTCTTTTATTTTACATAGGGGTCTAAGTGACCAATGGATTGTTTCATACAAACAAAAAAGACA
AAAATATTATTACAGAAGTGACCTTAGTATTACTTCACTATTCTAAACACATTGAAGACACTCACTTCATGTGGAC
TTGGAGCTACAGACCTTTTACATCCATCACAGATTGGCTGGACGGGTGCAATTGCTATGCACAGCCTGATTGGC
ACTGCAGGTTTTTAGAGCCATTTTGAAGTTTGTGTTGTTTAGGAGGTACTGAGTCAATGATGAGGGAGGTATGCCT
GACCAGAGTGGGACTCTCAGTCATAGATCCACCTGCAAGTCTCTGTTTCCCTTTTTGTGTTTTGTGCTTTTGAAC
ATAAAACCAACCATAACATAAGCAGCGCCAAGTGGATTAACTGGCTTAGAACATTCAACATATTGACTTAACCACC
TGACATTCACAGTGTCTTGTTCCTAGCAACAGATGCAAGTGATAAATCAAAATTAGTCTGAGGCTACAGATTT
TACAGGGTATTTGTTCTATAGCACAAAGTATTTCCCCACTCTTGCGTCACAGCACAACTACCAATTTTAATTA
TTGGATTCCAGCAATAATTTTAAATGGTTTTTCAAAGTGGCGGAATTTTGACAGTGCTAGTTCGAGTTTGAAGCTT
TTGAATTAGATCTCTAAATGGTGACAGTTTACATGGTTTTATCTAGCTTTCTTATTTATACTTGACTGAATTGTA
ATGATTTTTTTTTCTAATTGTAATTTGACGTAATAGCCATACAAAAATGACTCTATTCTACTAGGTTTAGCTTC
TCATGGTTGTAGATATTACTTCAGTTCCGGTGCTGGAAAATATGTACAACATACTAACAGGATTGAAAAAAAT
AGAGGTTTTTCTTCTGGTTTTTTTTTCCAAAGCAGGTAAAGAGGGTAGCAAAGCATCGGAATGATGTGCTCAAAA
ATGCATATTCCCTGGTGGGATGGAGGAAGAAGGCATTAGTAAAAGGTTAATCAAACGTTACAACCTTAACCCCAT
CATGCAGGAATAAATCAAGTGAGCAGTTCCAGACTTTTGCATAATATTTTTACTATGATGCTGTTTTATTAATAT
TTTCTAAATTTCAAAACAAAAAGTGAATGTTTGAATTGCTGGGTCCCGATGTTGGTGGCTGTTGGAGTTTTGGA
CCACTCGCTAGCAGTGATTGAAGATTATAATTAGCTAAAATCCAAACAAAAACCAACAACAAAAATTGTATG
GTGCGGAACATGCACCTTGACAATGGTACTAATTGTTATTCTATAGAACACGTTAGAATAGATCTATTTTTGCC
AGAGCACCTCCTTCAGTCCCTCCGATTACATTTCACTAGAGTTTCTTACGAGATTGCTGTATATTCCTGGGACCN
NNNNNNNNNNNNNNNNNNNAGCAAAGCAAAGATTACTTTTTTTCTATGTGATTAATATCTTACTTGATCTGCTTT
TCCTAAACCTCAGTGGCTTTTCCCTTAGGCAGGGTTGGGGGTGGGAGGGCAACTTACTGGAGATGACTGTTTTCA
GATACTTTAAACAAACCTTTTTGTAGAAATGCTTAATTTTTAAGCGGTTAGGCACTGAGAGTAGCAGAAATCCT
GCAAAGCTTTATAGTTCCCTTAGACTCACCTTGTCGATTCTCTGAGTAAAGTCTTGATTTCAATAATTGTGCTTCT
CATGCCCTGAATCTGCTGGAGAGGAGTGTGTTATTTTTCAGGTAACAACATTCGTTAGCACAAATATTTTCAGACC
AATATTAGTGCTCTCCACCCACCTTTTGTTATCATTTTCACTTCTCTCATTCTTTTTTATTTTGAAAAA
TCATATTGCTATAGTGTGACTTTAATCTGCCAGCAGATACCATCTACACTAACATTTGTCCACAGCATCCTCA
AGAGAAAAAGTTGTTGCACCTTATATATATCTCAAGCAAACCAAAATATGATGCTCTTCTGCTTTGTTTTATTCT
AAATTGTTGTATCATATCTTTCTGAAACCATTCTGAATTTAGTTGAAATTATCAATATTTATGCTTTTAACCTTA
ATTTCTGGATTCAAGCCTGTATATAAATCTTTTGAACAAAAATTGTCCTAGCCCTTCTCTGCGATGCTGGAAGTA
GAAGATTGCGTCTCAGATGGAGACGCAGTACTGTTCCAGTTTTCTTTAGCCTTTTATTTATTTAGTTATTCTGGG
TATTTCTATGTAATTTTGAAGTGTTGTAGAGTATATTATAGTAACTGAAGCTGCAGCTGTAAGAAGCTGAGTGAA
AGAAAAAATACTGTAAGACATCCTTAAAGTTTTTATTTGTTTGGGTACTGTATATGAGATCAGGAAAAAGAAAA
TGTCCACAGCCACATTGGAATAACAGGTTCTTGTCCCAAATTAGGTTAGTTCCAGATTTTAGATCAAACTG
TTAATTCATTAAACCCCTTTTAAAGGTAAATCTACTGTTGTAATTCGATAGTCTTTTTCCACAAATATCA
GAAATATATTTATTTAATTCGTGCAGATGAGCTTTCTACCGATGCCATGTCCCAAAGCCATGTTAAAAATAATTCC
CACGTTATCATTGTGATTCTACTTCCCTGCCACTAAAATTGCTGGAGAAACAAATAATGATGGAACACTATGAAC
AAAAAGGAGCATCTGAAGTGGTCTGGTTATTTAGAAATCCAATGTGTTCAAATCCTTTTGTCTTTCTATTAAAGTCA
GATGCTACTGTAAGTCAGATAAAATTTTGTGTTGCACTCTGCAGTCTTTGGCTCAATGTATGGAATGTTTGCACC
TATGTAAAGTCACAAGCTAATTACAAATTGCTACAGAACAGGAGTAAGCTGAAAACCTGAATGCCATGTTTTGTTT
ATAAGGTGGGGAGGGGAGGGAAAAATACCAAAAACTCTGTTCCAAGTTTGGCATTTGACATTAATGTGAAGCAGT
GGGACCATGCTGCCTGCTAAACTACTGTATGAATCGTAAATGTTCTGAAGACGAGCAGCTGGAGGCTGGAGGATG
GCATTCCATACAGCAAAGGAGAAGCACCCACCACTTCATCTGGGAAAAGGAAGGAAATTGCAGGAGGCCTGGAGC
CATCATTTGTAAAGGGGATGTTGCGGGGTGTGATGCTGTTGAGGAGATTACCTTCAATTGCACTGCTCCACAGA
GCCCTCATATAAGGCAATCCTAATGGGCTACCTCGGCTTTAAAGTTAATTTAGTAAGTCTGTTTCAAAAGT

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FIGURE 990C

TTGTCITTTTTTGGCTTCTACCTTCAGTGCCACTATTTTCCACTGCAGTGTTTTGACTTCACAACTGCCTCCTCC
AGAGAGAACAATGTATTGCTGAAAAATGGGCAGTAGAAGCAAATGCTGTTGTTACATTTGACCTATAAAGTATTCA
GAGTGACTGCTAGGTAGAAATTAAACCTTAGCTTTCCCAAATAGCTCCTTATTTTGCACCTTATAAAAAGTATAC
TAATTGTTAATTAGATGTTGCTTTTGTTTATACAAGCATTCCCAAAGAACTAGATTTGGATTTTGTGTTGAGTTT
TTGGATTTTTTAAAAATTATCTTATTTAGATTGACTAACAGCATACTTACAATTTTAAAAGAAGCTGTTGTTTCAGT
TCATCTTACCAGATGTGTCTGGCGAAGTATTCAGGGTTTGATGGACTGCTTTACTTTTCGTTTGGAAAGTGATAGCT
AAGTTTATTATACTCTATATTAAACAACCTTTGTTCATTTCACTGAGGACCTTATCTTCCTTATATTTCAGAACAA
AGAAGCAACAAGCGTGAATAAAAAAGACAAATGTATTTGACTCCCTCATAATCCCCATCTGTATGTGCTACCCCTC
CTTCAATATATAAATGTGCATCTTTTTTTTTTAAAAAANAAGGTTCTCTTCTGGCCAAATTTGAT
CTATGGTGGTATGATTTCATACTGTTAAATTGAGAGAGGAAACCTTGTGGTTAAAAATTATATGGCTGCTGTTTTTC
TTTTTGCAGTCAGTGGTCAAAACCTGATCATGTGCTTAAATCGATTTTTTATGCACAGAACTAGTTATTGTGAACAT
TACTGCTCCCTCCAAAGATTTCTGATAACTTGGGCCAGAGGTGGTTACTGAGTAACAAGGATCTAATTCAATGC
CTCAAACTCTTCCACCCACAATGCAAATCTTACCTCACAAGCTCTAACCTAAATCACAGAGACATGCATGTTTTC
ATGCATTAACTGATTTTCGCTCTGTGGCCACCAGAGGGTGGGCTCATGTCCCTGACTCCTCACATGAGTGC
CTCAGCTCTAAGAGCCGTGGAACGGGGGGTAGGGAAGGTTTTCGATCTGGAGCTCAGCAACTGGCTCAGCAACGT
TTTCTCCATTTTATTAGCACTAAACAAGTCTCTTGCTCTCAGGAATTTGTGAGAAAAAGAATAAAATCACCTGA
GACTCCACATACCAGATTATAAACTCTTCTCGTAGGTTTGAATTGCTTACTCACATGTCATAAATTAACCACAGC
TTCATTTGACCACCAGGTCTAAAGTCTGTTGACAGTTTCAGCATGACTGAATCGCTCATTTTTTTTTTTTGTCTT
CAGAAATTGGCTTGGTTCTCTTTAGAGTTGGTGTAAACATGCCATGTAATAAATGATTTCCACTTAATGGTACAA
CAGAATTATTGCTTTCTTAGATGTATGTGTAGTAAAGTCAATATACACATTTATATAATTTCTTTCTTCAAAAT
CTTATACCTAATTTGATATTTCTAAAAATTGCACATGTAAGTCATGTGATAAACATGCTAAAGTACTTTAACTGT
GATCTTAAACTGAATAAAAAATTTAATAAACTTTGAAATATTTTAAAGATATTATTCAAATATATTTCTTTA
TGTTCACTACTGGCCGTAGAGTATGTGCCTTTAATGTACCATTTTCACTAAAAACAGTAGGAAAAATACTAAT
AAAAGTAAGATATTTCAACTATTTTAGAACATCGAATGATGTGTCNCCCTAACTGTGTTTGC

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FIGURE 991

MKGSNRNKDHS AEGEGVGKRPKRKCLQWHPLLAKKLLDFSEEEEEDEEEDIDKVQLLGADGLEQDVGETEDDES
PEQRARRPMNAFLFLFCKRHRSLVRQEHPRLDNRGATKILADWWAVLDPKEKQKYTDMKEYKDAFMKANPGYKWC
PTTNKPVKSPTPTVNP RKKLWAFPSDSSRDLPSPKKAKTEEMPQLNFGMADPTQMGGLSMLLLAGEHALGTPEVS
SGTCRPDVSESPELRQKSPLFQFAEISSSTSHSDASTKQCQTSALFQFAEISSNTSQLGGAEPVKRCGKSALFQL
AEMCLASEGMKMEESKLIKAKESDGGRIKELEKGKEEKEIKMEKTDETRLQKEAEFEKSAKENLRDSKELRNFEA
LQIDDIMAIKMEDPKEIRKEELEEDHKCSHFPDFSYSASSKIIISDVPSRKDHMCHPHGIMIIEDPAALNKPEKL
KKKKKKSKMDRHGNDKSTPKKTCKKRQSSSEDIESVIYTTIEAVAKGDWGIEKLGDTPRKKVRTSSSGKGSILDAK
PPKKKVK SREKKMSKEKSSDTTKESRPPDFISISASKNISGETPEGIKAEP LTPMEDALPPSLSGQAKPEDSDCH
RKIETCGSRK SERSCKGALYKTLVSEGMLTSLRANVDRGKRSSGKGNSSDHEGCWNEESWTFSSQSGTSGSKKFKK
TKPKEDCLLGS AKLDEEFKKFNSLPQYSPVTFDRKCVPVPRKKKKTGNVSSEPTKTSKSGGDKWSNKQLFLDAI
HPTEAIFSED RNTMEPVHKVKNIPSIFNTPEPTTTQEPLVGSQKRKARKTKITHLVRTADGRVSPAGGTLD DKPK
EQLQRSLPKATETDCNDKCSHNTVEGETRSSTPEMPAVSAFFSLAALAEVAAMENVHRGQRSTPLTHDGQPKEMP
QAPVLISCADQ

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FIGURE 992A

GTGGGAGGATTTTTTAACACTTTGCAGTGTAGCTGTGAAGCAGTGCACCCTGAGATGGGCCTGGGCTGCAAAGCGA
CTGTTCTGCCTACTGTGACAACTTCAACTTACACAGGTTCCCTCTCTAACTTCCCACCTGGGTTGCAAGCTGA
ACTCATTACTGGTTTTTCATAACAACACAATAGTAAGAACAAGCAAACACAACAAATTCTCCTGGAGGCAGACTTG
GCTTAAAAAGGCAGACTTGGCTTGGTGATAGTTTTTCTTGAAAGTTCAGATCCACAGTGGAGAGTGAGCCTGTC
TCATATTTGGCAAAAAATATTTGTTGAAATGTCCACATAGGGGATGTTGGATGTTTAACACTTTTGAGAGTTTAAAC
ACATGAATATTCTTTCTCCTAGAAAACACATTAGACCTGTTGGAGGGAGTCTCCCGTATTCTTTTTCTGCCACTT
TTCGTCCCCATTTCAATTCATTAATGATAGGATATGATTTACCTGTGACTTACTACTTCAAATGGATGGCAGTGC
ACTTGGATTTTTTTTTTAATATCCAGAAGATTGAACAGAGGGTTGCTATTGTTGAATGTATTTGGACTGATAGATT
AAAATCAAAGTTCAATTTTTAAGGAACAAAAAGTAAATCCTGTTTTTCAATTTTACCTCCCCTTTTTAAACTGAGA
ACCAGAGCAGAAGGGAAATATAGAATTTTAAGCAATTAATCTTCTGTGGATGAATTAACCCATTAGATGCTGA
TGGGATTTTTTTAAGGAATGGTACCTTAACATATATTTGATTTTCGTTTTCCCCTGAGGGCTAGAGGCTGAATGGA
GGCTGGTTTTATTTTGCCTTTCCCTCACCGCCCAGTCCCATTTGAGTGTATTCATTACTAGAAGGAAAAATCTTTCA
GAATTGGTGACACATGGTAGGCTGTCTTAAGGAGTCCCCTGGCCCCCTTCCCCTAGGCCATGGCCTAATAAAATA
AACTGTCAATTGTTCTCACAGCATATCATTTAATAATGAATACTTTAGAACAATGCTTATGGGCTGGAGAATTGT
ATTTGATTAGCCCATTCACTTTGATAGCCCAAATGCTGAACAGCACAGCGGGATCCTAGCAGTGAAGTTCAAAA
GTAAGTCCAATCATTTCTGTGATACTCGCCCTGGTAGCAAACAGATCATCTCAGCCAAGCTCTTCATGTATCTTT
GACCTATTAGGTGAACAAATGAACCTCACAGGACACACAGTATTTTTTAAAGGCAGACTCGCTCTCTTTTTTGCC
AGTGAGCAGTTCTAGCTAACCAAGTTACACACTGTGGGTATTCTGCCTGCCTCTTGAATACAAAGGCCTAGTTC
AAGTGTTCCTTTTTTTTATTTCAAATCAATTTTTTCTTCTTTCTTTTTGAGATAAACTATTAAAGTACTACTA
TATATATAAAATCTCAAATCAACTTTTCGGCCTCCTCCTCGTGTACCAGGAAGTATATTCTGACGAAGGGCCCCA
CTTTTGCAGGTCTTGCACGCCCTCCCTTACCAGAACTGCAGAGCTTCAGGATGGCGAAGGTCACCCAAGGGCA
TGAGTAGGGAGTGGTGTCTCCAACCATCAGTTCCTGGTGGCACTGTTTACGCTTTTGTGTGCTGCCCTGCCACCCACC
ACTCACAGTGCCTCTGAAGCGTGTACCCCTGGAGTGACGTGAGCATTGAGGCTTGTCTAAGGAAAAAATAAA
AGGCAGTGAAGGAGACTGTACATAAAGACATGGCAAAATCTTAATTATAGCAATATAGTTATCGGGTAATGTTT
GGGTGGGCAGCTCCATTAAAAATATGTGAATGAATCTGTGAAGCTGCAAGTAGCGAGAAGAGCGAAAGGTCTTC
TTAATGAACCGCTACCTTGTAGACAGTAATTTGTACACTGTATAGTTTTGTTAAGAATTTTTTTTAAATTAAAA
TTCCCATGTTTGTAAAGCTAACTTTTTAACAATTATAATGGAACATATGTTGTTTCCATTTTTTAAAGTAAACAA
GAATATTCTTGTTTAGAGACTGGACTTGAGTTAAACTCTCCAGTCTCTTAAGTTATGTATTAAGGAAAAATC
TGTCCATGTTAGGAGTTATTTACAGATTCTGTGCTTGAAAAGCATAGGATACTAATCCTTTAAAAAAGTGTA
ATGGAGAAAAGTTATATTTATGAAGGTTATTTTGTGTATTTAGTATTGAAAAGTTGGTTTCCAGAGCATTTT
AGAATGTGCAAGCACCCTGTCTTTTATTAGTATATACGGCCTTTAGCAAAAGTTTTTGTGATTGTTACGTGAT
GGTATTTAAGGTTAAGTTTCACAGAGCATTCAGGATAGGCAGAAAACATAAACAGTGCTATGTCTCACATAACGT
GTCCTCAGGGAGCAGAATCTTGGATTTGTGACTTGTAGCTTCATAAGGACTCAACGAAAGAGATTGCACAGGGAC
ATCTTCAGCGGTGTGACAGCAGGACATGTTCTTTACCTAGATTCAAATTCTATGTACTGTGTGAAATGATGAAGG
CTGCAGAAAGTTATCCCATATTCACTGTACAGTATTCATTTTTAATGAAACAACCTCTACAATATTGCTGGCAGAT
AGGCCCCAAGCATGACATTCAATATAGTTTACATGTTCCCTGTCAAGGTCTTTTTGTTAACAATTAACCAGCTGCATG
CTTTCTGGACTTTAAGAAATTTGGGTTTCTATAGAAAACTTTTTTTTTTTTTTTTTTTTTAAATGTGCAGGCTATTTC
AAGTTCAATAGTAAAGCTCAAAAATGAATGTTCTACTCCATGCTGAAGGAGCTGAAAGCTGCCTTCTTCATATT
TTGCACTTTCTGGTAGTTCCCTGTTTTTTCTAATTCCTTAAATTTGTGTGGGTGGAGTGGAGCCCTGCAGTTGG
GGGGTAACATGGACCACTGATTTTGCCCTTTGACCCTGCACAATGACCTTTGCATCAGCCAAACTCATTGCCATG
ACAACCTCTTTGTACTGTGTCCGTGCCACAGATCTGTTGGTTCACATTGTTAATAGTAAAGGGGACAAGTTGGAGAC
GGTCAATTTTTTACATTTTTTGTGCAATTTTTTCTTCAATGGTTGTAAGTAGTTTTTTTTTTTTTTTAAATAATAAA
AGGGTTCACTAGTTAATACTCTAGAAATATCTGTGTGTTGCAATTCAAATGTATGTTGAGATTGTGAAAAGCGCT
TCAGTGCCACTAGCTTACCGGTACACTAGACTAAGCCCTTGATGACTTATTGCATGATACAGTACCAGGAACAAC
AGGTGGCCCTAAATACATGAAAAGCAGTGAAGCTAGTGACACTAAAGCCAGTCTTGATTACTGTATTTTTTGACA
GAATGGTTTTTGAAGACTGTGCTACAGGGACTGATGTGGCAATATATCTCTTTATGCAGAAGGAAGTCTTTTTTT
TTCTTTTTTTTTTTTTTAAAGAGTATGGCTTTTTATGCATCCTTCATCGAGGGCATTGAAGTTGCATGGACTGAT
AAAAGTTGATGCAAAACAAGAAAGAAACAAACAAAAAACCAGCAAAATGTTTACCAAAAAACTCAAACAA

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FIGURE 992B

ATGAGCAGTGCCTGTTCAATTTACAGTCTCTGTTGAGTTGAGTTGTAAATATGTTTCAAATGACATTTTCTTGG
GAAAAAAATCTCTACAACATTGTAGAATGTGAGGGGTAACATCCAGGCATAGGTTTCTCAAAGCTGCAGT
AGATTATGTCCTTCATCAAGCTGTTAATTTGTGCTTATATCATATAGAACTTTTAGCATCCTGGGAAGAGCTGCCC
CCACCTCAATGATATTTCTCTGAGAACAACCTTTTGTAGGACTGTGTGTTTCTTTAGATACATTTAGTACAACGT
AGGTGACGAGTAGTCAGTTATTGCTTGCTAGCTACACACCAGGGTTGATCCATTTTAAACCTTTTGGCATTTTGT
CCTCATGGGCCATAAATACAGAACCTTGTATTTTAATTAAATTTTTTACAAAAGGAGGCACATGCACAATCTCC
ATGTAACAAACCTTTAGCAGTAGGATGTATTATACGACAGTTACTTAATTTCTAGAGTTCAGGCCTCTGGGATCA
ACCCAGACTGGGCCAGAATGTTAGTGAAGGTTTTATTGTGCCCGGTTGGAGGATAACGTTCTTTGGGTACTTTT
TGTGGGTTGCAAATGAACTCAATTGCCACAAGTTTTAACTGGTGTAAATCAAGCTTGACTTAATGTGATTGTTA
CTGTTATATCCAGCCTATACTGCTAGCAGCTGCTCATACTGCAGTCAATTACTGGAAGCGGATATATTTCCCTATG
CAAAAACCTGTTTAAACAATAAAATGAGCTATGCTACAGAAA

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FIGURE 993

GRIFNTLQCSCEAVHPMGLGCKATVLPVTNFNLRFP SLTSHLGCKLNSLLVFITTQ

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FIGURE 994

AGAAGAAGCTGGCCAAGGATATGGGAGCAACCACCATGGACCAGAAGTCTCTCTGGGCAGGTGTAGTGGTCTTGC
TGCTTCTCCAGGGAGGATCTGCCTACAAACTGGTTTGCTACTTTACCAACTGGTCCCAGGACCGGCAGGAACCAG
GAAAATTCACCCCTGAGAATATTGACCCCTTCCTATGCTCTCATCTCATCTATTCAATTCGCCAGCATCGAAAACA
ACAAGGTTATCATCAAGGACAAGAGTGAAGTGATGCTCTACCAGACCATCAACAGTCTCAAAACCAAGAATCCCA
AACTGAAAATTCCTTTGTCCATTGGAGGGTACCTGTTTGTTGCCAAAGGGTTCCACCCTATGGTGGATTCTTCTA
CATCACGCTTGGAATTCATTAACCTCCATAATCCTGTTTCTGAGGAACCATAACTTTGATGGACTGGATGTAAGCT
GGATCTACCCAGATCAGAAAGAAAACACTCATTTCACTGTGCTGATTGATGAGTTAGCAGAAGCCTTTCAGAAGG
ACTTCACAAAATCCACCAAGGAAAGGCTTCTCTTGACTGCGGGCGTATCTGCAGGGAGGCAAATGATTGATAACA
GCTATCAAGTTGAGAACTGGCAAAAGATCTGGATTTTCATCAACCTCCTGTCCTTTGACTTCCATGGGTCTTGGG
AAAAGCCCCTTATCACTGGCCACAACAGCCCTCTGAGCAAGGGGTGGCAGGACAGAGGGCCAAGCTCCTACTACA
ATGTGGAATATGCTGTGGGGTACTGGATACATAAGGGAATGCCATCAGAGAAGGTGGTTCATGGGCATCCCCACAT
ATGGGCCTCCTTTCACACTGGCCTCTGCAGAAACCACCGTGGGGGCCCTGCCTCTGGCCCTGGAGCTGCTGGAC
CCATCACAGAGTCTTCAGGCTTCCTGGCCTATTATGAGATCTGCCAGTTCTTGAAAGGAGCCAAGATCACGCGCC
TCCAGGATCAGCAGGTTCCCTACGCAGTCAAGGGGAACCAGTGGGTGGGCTATGATGATGTGAAGAGTATGGAGA
CCAAGGTTTCAGTTCTTAAAGAATTTAAACCTGGGAGGAGCCATGATCTGGTCTATTGACATGGATGACTTCACTG
GCAATCCTGCAACCAGGGCCCTTACCCTCTTGTCCTCAAGCAGTCAAGAGAAGCCTTGGCTCCTTGTGAAGGATTA
ACTTACAGAGAAGCAGGCAAGATGACCTTGCTGCCTGGGGCCTGCTCTCTCCCAGGAATTCTCATGTGGGATTCC
CCTTGCCAGGCTGGCCTTTGGATCTCTCTTCCAAGCCTTTCCTGACTTCTCTTAGATCATAGATTGGACCTGGT
TTTGTTTTCTGCTGAGCTGTTGACTTGTGCTGCTGAAGTACAATAAAAAAATTCATTTTGCTCCAGTA

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FIGURE 995

MDQKSLWAGVVVLLLLQGGSAYKLVCYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVIIKDKSEVM
LYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVDSSSTRLEFINSIILFLRNHNFDGLDVSWIYPDQKENTHF
TVLIHELAEAFQKDFTKSTKERLLLTAGVSAGRQMIDNSYQVEKLAKDLDFINLLSFDFHGSWEKPLITGHNSPL
SKGWQDRGPSSYYNVEYAVGYWIHKGMPSEKVVMGIPTYGHSFTLASAETTVGAPASGPGAAGPITESSGFLAYY
EICQFLKGAKITRLQDQQVPYAVKGNQWVGYYDDVKSMETKVQFLKNLNLGGAMIWSIDMDDFTGKSCNQGPYPLV
QAVKRSLGSL

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FIGURE 996

GGCACGAGGCCGCGATGCCGCTGCTCGTTCGAGGGGCGGCGAGTGCGGCTGCCGCAGTCAGCCGGGGACCTCGTCC
GAGCCACCCGCCTTTGGAGGAAAGAGCCAGACTTCTCAGAGGTCAGTCTGTTCAACAAGTGGGACCCAGGGCC
TTCTGTATGTTTCAGCAAAGAGAGCTTGCAGTGACCTCCCCAAAGGATGGCTCCATCTCCATTCTGGGTTCTGATG
ATGCCACTACTTGTTCACATTGTGGTCCTGAGGCACACAGGTAATGGGGCCACCTGCTTGACACATTGTGACGGAA
CCGACACCAAAGCTGAGGTCCCTTGATCATGAATCCATAAAATCCTTTTCTGACCACGCTCAATGTGGAAGGC
TGGAAGTACACCTTGTTGGAGGCTTCAGTGACGACAGGCAGTTGTCACAAAACTCACTCATCAACTTCTTAGTG
AAATTGACAGGCAAGAAGATGACATTCACCTAGTGACATTATGTGTGACAGAATTAAATGACCGGGAAGAAAACG
AAAACCACTTTCCAGTAATATATGGCATTGCTGTCAACATTAAGACTGCAGAGATTTACAGAGCATCCTTTCAAG
ATCGGGGTCCGGAGGAGCAGCTTCGTGCTGCGCGAACTTTAGCAGGAGGACCAATGATTAGCATTTATGATGCAG
AGACAGAACAACCTTCGTATAGGACCGTACTCCTGGACACCATTTCACATGTGGATTTCTGGTTGCACCAAGATG
ACAAGCAAATACTAGAGAATCTTTCCACTTCGCCTCTGGCTGAGCCACCCCACTTTGTTGAACATATTAGATCTA
CCTTGATGTTTTTAAAAAACACCCATCTCCAGCTCACACACTGTTTTCTGGAAATAAAGCCCTACTCTACAAAA
AAAATGAAGATGGCTTGTGGGAAAAGATCTCTTCTCCAGGAAGTTAAAAAACATGAATTACCAAAGAAAGCACCT
TCTTGGCCTGACAGACCATTGGTGGGGCTGGCAGCAATCCAGATCTGGATCCTACATCTGTTGGGTCTTAGGCCT
CCTTCCCTCCTCAGTGTCTTTCAAATGACTTTCATCAAATGACTTTCAAATAAAACCTTATTTTGGCAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 997

MPLLVEGRRVRLPQSAGDLVRAHPPLEERARLLRGQSVQVGPQGGLLYVQQRELAVTSPKDGSI
SILGSDDATTC
HIVVLRHTGNGATCLTHCDGTDTKAEVPLIMNSIKSFSHAQCGRLEVHLVGGFSDDRQLSQKLTHQ
LLSEFDRQ
EDDIHLVTLCVTELNDREENENHFPVIYGIAVNIKTAEIYRASFQDRGPPEQLRAARTLAGGPMIS
IYDAETEQL
RIGPYSWTFFPHVDFWLHQDDKQILENLSTSPLAEPHFVEHIRSTLMFLKKHPSAHTLFSGNKAL
LYKKNEDG
LWEKISSPGS

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FIGURE 998

GGCACGAGGGTCACTCCAGTGGCAGCTCCAGAAACGGAGGCTGTTGCTTTTATCCCTAAACTGCATCCACAGAGA
AGCCCCAAGAAGGAGGTTGGGGCCAGCTCATAAAAGCCTGAATGCCAAGCCAAGGAGTGGATGCCTCCAGTCAT
ATTTAGAACAAAGTCAAGTATAAATTTACAGAGAAAAAATTCTAAGACAGTTGGATGTTGTCCTGTTGGTGAGGA
AGGGAAAGGTTTTTCTTGTAGGGAAGTGAACAGCCCACAAGTGCACGCTTGTGAGCTGTCATGGAAACCTGAT
CCCCAACAGCTTTTGAGGTTGTTTGTGTTTGTGTTTGTGTTTACCTGTCTTGGGCTTTGTTGCTTTTGGCAAAGGT
ACTTCAAACAAGGGAGGGCCTGGACTGAGGGGGACCAGGTCTTCTTGCTGACCTCGTCTACAAAGGCAAAGGAAG
GCAAAGGAAGCTGTCTCGGGTGTGTTCTGAACAACGTGACTCATGAGGGGCTTTGGCTACCTCTTGCGTTCCCCCT
AGAGATGTCCAGGCCCTTACATTTAATCGGCTTTCTCTGCGGTGGGGTAGAGAATGGAGCTCCCGCCTTGCGGGCA
GTGCTAAAGGTGGAGCTGGGGGATTTTCTGGAATGATTTGAGGGCTCTTGAAAGCCCATGTGTTCCAAAGCGT
CTTTAACTCTGGGATAGCATTGGAAGCCGCTGTCATGACAGGACATGGCACTGGATGGCTGGCAGAGAGCCCTGG
CTGGGAGTTAGGGAGCCCTGGGTTGGAATCCAGCCCCACCTCTTTTATGCCACAGGTTTGGTCAAGTTCTCTCCC
GCTCAGGGTAGGGCTGTGAACTCCCTCTTACAGCTAAGAACATGCAGCTTAGTGAGGACAAGACCCCTTCTAGAGC
TTTACCCCTAATCCCCCCCCCAGGAGCCCCGAGGCCGGCATTATTCCCTCCCCATTACAGGTGATGAGCCTCAAATT
CAGAGAGCTTAAGCAACCTGCTCAGGGTCACGTCTCCAACAGGCAGTAGAGTCAAGGTATAAACCAGGTCTGTTT
TTGTACCAGAGTCCCAGACTAACTGTTGGTAGGAATCTTGTAACCAGTCATGTTTTCTTCCTTGTTTTGGCCGCT
GGGAAGCTCAAAGTCAAATTCGAGACCCTTTTTTTTTCCAATTGTGCTGAGTCTCCTACTAGACTCGCTTCATTCT
AGCTTTCTGCTTTTACCTTTACCCTAATCTTTTTATTTTTATTCTATTGTACTTTATTTTTGTAAGTTGCTGAGA
TATCTGTTTTTGCAACAAGATGGGCTATATCTAAATAAAGACATGATCAAAGGTTTGATTTAAAAAAAAAAAAAA
AAAA

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FIGURE 999

TAAAGCTGGAAAGATCTAAATAACCCAACAGGAAATGCGGATGAAAGTGCAAGAGTTGGTTTGTGGTCATCTGCA
GTCCATGTCCAAGACTGCTGGACCTTCAAATTCTGCAACTTCAACCATTACTTGGTGTAAGAAGCTTAATTTCA
GTATAAACTGACTCTGGGCAGCATTGGTGATGCTGTATCCTGAGTTGTAGCCTCTGTAATTGTGAATATTAAGT
AGATAGTGAAACATGGTGTCCGGTTTTCTATTGCATTTTTTCAAGTGGAAGTTAACTAAATGGTTGACACACA
AAAATTGGTGGAGAAATTGTGCATATGCCAATTTTTTGTAAACCTTTTGTGTTGAACTATACTGCTTTGAGAT
CTCATTTGAGAAGAACGGCATGAACAGTCTTCAGCCACAGTTGTGATGGTTGTTAAATGCTCACAAATTGTGCATT
CTTAGGGTTTTTCCATCCCTGGGGTTTGCAAGTTGTTCACTTAAACATTCTTAAATGGTTGGCTTCTTGTCTG
CAAGCCAGCTGATATGGTAGCAACCAAGATTCCAGTGTTTGAGCATATGAAAGACTCTGCCTGCTTAATTGTGC
TAGAAATAACAGCATCTAAAGTGAAGACTTAAGAAAACTTAGTGACTACTAGATTATCCTTAGGACTCTGCATT
AACTCTATAATGTTCTTGGTATTAAAAAAAAGCATATTTGTACAGAAATTTAGTTAACATCTTACAAGTGAAC
ATGTATGTATGTTGCTTAGATAAATGTAATCACTGTAAACATCTATATGATCTGGGATTTTGTGTTTTATTTGAA
ATGGGAGCTTTTTTGTGTTTACAAGTTTCAATTAATACTAAAGTGTCTGTAAGGAAATGAGATTTTTTTTAAAC
AACAAAAATGCCTTGCTGACTCACTATTAAATAAAATCTCCCAATTTTTTGATAGACTACTTCAAGCCATTT
GTTACATGGTATTCCTTTGCAAGTCAATTTAGGTTTCGTGTTATAACTTTTCTCTTTTTTAAAGAAAAATGAAA
AAAGTAATCTTTTTGTCTGAAGGGGAAAGGCATTCTTTCATTTTTTTCTTTGTTTTTTTTTTTTTATGACTTG
CAGGCACAATATCTAGTACTGCAACTGCCAGAATTGGTATTGTAGCTGCTGCCCGCTGACTAGCAGCTGGACTG
ATTTTGAATAAAATGAAAGCATTAAAGGGTTTCCCTACAAAACATTTTCTTTTTTATTTGAAAACACTTTTA
GCAATAATTAATTCCATGATTATCATTCTGCCATTAAGGGATATTAGTACCCGTAATACTGAAGAAATTTTAT
TAAGTCTGAACCTCTGGGGTAGGCAGCTTCTTTGTTTCTTTTCTATCCACCCTTGTCGGTTGAGGTATTTGTTTC
TTGACTAATAAACCTTTGATACTTTTAGCCAGAAATCAGTCTCATAAAGCTATTTTGTAGTATAGTTTGTGTAA
AATAAAATGTTTAGCTTTGGTAATAACTTCCAAGCTGAACCTCCCTCTAGCAAGATATTTTCAAGTGCCTTTATT
TACTATGCACCTTAGACTATGCACTTTTTCTGAAATATTTTTGTAAACACTTTTTTGTATTTTGCCATTGAAAAG
GTTGTGGTGTAGTTGGTCTGTAATTAAGTTGCAGATTTAAACTGCTGTAGCTTTGTAAATCAAAATATAGGTG
TTTTTTGTCTGGTATATCGTCATTCCATCTGCAGCTGGAGCTGGAATCCCATGATCTTCTAGCTACCATTCTAT
TTTCTTCACTGTTTCAAAAAGAAGAGTGTGAAATTCAGTGAATGCTGTTACTAATCCTGTTACGAGATGAATCTC
ATTTACCAAAAATTAATTAATGTTTTTCCGCTAAAATGATGATACAAGTTGAAGACACATCACTCTGAAATTGGA
AGACCTCACCCTTAAGGCTCCACAGTGGCTTACTCAGCTGAACCTCTAGGTTACTACTCTTTACTTTGTTTACCC
ATTGGGGGGTGCAGTTTTTTTTAAATGTTGGGAGATGGCCATTCTAACTACTGTTGAATGTCTCTGTTTTGGGAA
GGTATAACAAGAAATAAAAAAGAATATATGAAGGGAGAGACTGGTTATCTCCTCCCTATATGGTTGTGCTTAT
CCTCTTACGGCTTACAAATGAATATTTGGAGGTTTGCTTTCACAATGATTTCCCATCAACAAATATTTTAGTAG
GATTTTTCTGTTTCTGTTAGTCTTGCAGTACTATAAATGTTTTAAGCTGAGCATACTGTAATAGTCATAAGT
TTAATTTTCAATTATAATAAAAAATCAACAAAAGGCCTTTAGAACCAAGACAATGAGCTAGTTTTCCCTAAAG
TTTGCTGAACCTATTAAGGAATATGTTCTTATAGCTTTTGACTAGAATGAGTCATGGGAATTCTAAGAAGGGATGG
CCTAGACATTTTGTAGCTCAGTTAAATTCAGCATTTAATGCAGGTGAGTTCTTGGGTCGTTTTTCAACTAGTCTGG
AACAGTCTGGTTCTGACTCAAACCTGGTATAAAGCATTATTTTAGGTTTTCTCTTTGCCAGTTTTTAAGCAGTTAT
AACCATGTAAATCAAGATGTGAGGACATCTATATGAAGTATAGTAAAGAAGTGGTGTGAGCAGATCAATATGTGT
GTCTTGGGTGTGCTGCTCTCTTAAGTGAGACTTTGTGAGACTATACTTTAAATGCATTATTACCATTGCTTACAT
TTTGGGGGATTTTTCTTCTCCACAAAACCTCCATTTCTATTGTAATATTCTTAATGACAATCTTTTTTTTTTTT
AGCAGTGTATGTTTGAACAGCCAAAGATGGCGATGAACCAAGTGTAAATTGATCTAAGCAGCCCATGCAGTTTG
TGTTGAATCAACAAACAGTGTATTGTTGAAGTGAATTTATTTCTGAAATGACTTGTTAGACCAGTTTTGAGGAC
ATACTCAAAGTAGAGTAATAATGGCTCCTGGGATGGAGAAATATGAGATGAACCTGGAACATTCTATTATGGTG
CCCCAAAGGAAATATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1000

MFLVLKKKHICHRLVNIQLNMYVCCLDKCNHCKHLYDLGFCFYFEMGAFLTSSLKTKNCFCKEMRFFLNKK
CLADSLNKNLPNFLIDYFKPFVTWYSFASQFRFRVITFPLFLRKMKKVILLSEGERHSFIFFFVFFFFYDLQAA
YVLQLPELGIVAAAR

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FIGURE 1001

GC GCGGGGGAGCCATTAGGAGGCGAGGAGAGAGGAGGGCGCAGCTCCCGCCAGCCAGCCCTGCCAGCCCTGC
CCGGAGGCAGACGCGCCGGAACCGGGACGCGATAAATATGCAGAGCGGAGGCTTCGCGCAGCAGAGCCCGCGCGC
CGCCCGCTCCGGGTGCTGAATCCAGGCGTGGGGACACGAGCCAGGCGCCGCCCGGAGCCAGCGGAGCCGGGGC
CAGAGCCGGAGCGCTCCGCGTCCACGCAGCCGCCGCCGAGCAGCCAGGGCCCTGCATGCAGGTGCTTGG
AGGTGGCAGCGAGACATGCACCCGCCCGGAAGCTCCTCAGCCTCCTCTTCTCATCTGATGGGCACTGAACTC
ACTCAAGTGCTGCCACCAACCTGAGGAGAGCTGGCAGGTGTACAGCTCTGCCAGGACAGCGAGGGCAGGTGT
ATCTGCACAGTGGTCGCCCCACAGCAGACCATGTGTTACGGGATGCCCGCACAAAACAGCTGAGGCAGCTACTG
GAGAAGGTGCAGAACATGTCTCAATCCATAGAGGTCTTGGACAGGCGGACCCAGAGAGACTTGCACTACGTGGAG
AAGATGGAGAACCAAATGAAAGGACTGGAGTCCAAGTTCAAACAGGTGGAGGAGAGTCATAAGCAACACCTGGCC
AGGCAGTTTAAAGGCGATAAAAGCGAAAATGGATGAACTTAGGCCTTTGATACCTGTGTTGGAAGAGTACAAGGCC
GATGCCAAATTGGTATTGCAGTTTAAAGAGGAGGTCCAGAATCTGACGTCAGTGCTTAACGAGCTGCAAGAGGAA
ATTGGCGCTATGACTACGATGAACTTCAGAGCAGAGTGTCCAATCTTGAAGAAAGGCTCCGTGCATGCATGCAA
AACTAGCTTGCGGGAAGTTGACGGGCATCAGTGACCCCGTACTGTCAAGACCTCCGGCTCGAGGTTCCGGATCC
TGGATGACAGACCCTCTCGCCCTGAAGGCGATAACCGGGTGTGGTACATGGACGGCTATCACAACAACCGCTTC
GTACGTGAGTACAAGTCCATGGTTGACTTCATGAACACGGACAATTTACCTCCACCGTCTCCCCACCCCTGG
TCGGGCACGGGGCAGGTGGTCTACAACGGTTCTATCTACTTCAACAAGTTCCAGAGCCACATCATCATCAGGTTT
GACCTGAAGACAGAGACCATCCTCAAGACCCGACGCTGGACTATGCCGTTTACAACAACATGTACCACTACGCC
TGGGGTGGCCACTCGGACATCGACCTCATGGTGGACGAGAGCGGGCTGTGGGCCGTGTACGCCACCAACCAGAAC
GCTGGCAACATCGTGGTCAGTAGGCTGGACCCCGTGTCCCTGCAGACCCTGCAGACCTGGAACACGAGCTACCCC
AAGCGCAGCGCCGGGGAGGCCCTTCATCATCTGCGGCACGCTGTACGTCACCAACGGCTACTCAGGGGGTACCAAG
GTCCACTATGCATACCAGACCAATGCCCTCCACCTATGAATACATCGACATCCCATTCAGAACAATACTCCAC
ATCTCCATGCTGGACTACAACCCCAAGGACCGGGCCCTGTATGCCTGGAACAACGGCCACCAGATCCTCTACAAC
GTGACCTCTTCCACGTCATCCGCTCCGACGAGTTGTAGCTCCCTCCTCCTGGAAGCCAAGGGCCACGTCCTCA
CCACAAAGGGACTCCTGTGAAACTGCTGCCAAAAGATACCAATAACACTAACAATACCGATCTTGAAAAATCAT
CAGCAGTGCGGATTCTGACATCGAGGGATGGCATTACCTCCGTGTTTCTCCCTTTTCGAGCCGGCGGGCCACAGAC
GTCGGAAGAAACTCCCGTATTTGCAGCTGGAAGTGCAGCCACGGCGCCCGGTTTTCTCCCGCCCTGTCCCT
CTCTGGTCAAACAACATACTAAAGAGGCGAGGCAATGACTGTTGGCCAGTTCTCACCAGGGGAAAAACCACTGTT
AGGATGGCATGAACATTTCTTAGATCGTGGTCAGCTCCGAGGAATGTGGCGTCCAGGCTCTTTGAGAGCCATGG
GCTGCACCCGGCCGTAGGCTAGTGTAACCTCGCATCCCATTCAGTGCCGTTTCTTGACTGTGTTGCTGTCTCTTA
GATTAACCGTGCTGAGGCTCCACATAGCTCCTGGACCTGTGTCTAGTACATACTGAAGCGATGGTCAGAGTGTGT
AGAGTGAAGTTGCTGTGCCCACATTGTTTGAATCGCGTACCCCGTAGATACATTGTGCAACGTTCTTCTGTTAT
TCCCTTGAGGTGGTAACTTCGTATGTTCAAGTTTATGCGATGATTGTTGTAAATGCAATGCCGTAGTTTGGATTAA
TAAGTGGATGGTTTTTGTCTTAAAAAGAAAAAAAAAATCAGTGTTACCCCTATAGAGACATAGTCAAGTTTCAT
GTTGATAATAATCAAAGGAATTACTCTCTTCTTGTAAATTAGCTAAATCATGTAACCGCAGATAGGAAGGGCTC
ACCTGGGGAAACTCTGGTTTCCGATGGGACAGGAAAGTCATACGGGCAACAGTATGCGGAAAGTACGTTTTTTTA
AGTAAAAAACAAAGGCAAACTTTGTACTATCCAGTTATCTAAGGAACAATAAAAAACATTAGGAGAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1002

MPGRWRWORDMHPARKLLSLLFLILMGTELTQVLPNTPEESWQVYSSAQDSEGRICITVVAPQQTMCSR DARTKQ
LRQLLEKVQNMSQSIEVLDRRTQRDLYVEKMENQMKGLESKFKQVEESHKQHLARQFKAIKAKMDELRLIPVL
EEYKADAKLVLFQKEEVQNLTSLNELQEEIGAYDYDELQSRVSNLEERLRACMQKLACGKLTGISDPVTVKTSG
SRFGSWMTDPLAPEGDNRVWYMDGYHNNRFVREYKSMVDFMNTDNFTSHRLPHPWSGTGQVVYNGSIYFNKFQSH
IIIRFDLKTETILKTRSLDYAGYNNMYHYAWGGHSDIDLMVDESGLWAVYATNQNAGNIVVSRLDPVSLQTLQTW
NTSYPKRSAGEAFIICGTLYVTNGYSGGTKVHYAYQTNASTYEYIDIPFNKYSHISMLDYNPKDRALYAWNNGH
QILYNVTLFHVIRSEDL

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FIGURE 1004

GAATTCGGCACGAGCTCTTCTCCCCTGATTCAAGACTCCTCTGCTTTGGACTGAAGCACTGCAGGAGTTTGTGAC
CAAGAACTTCAAGAGTCAAGACAGAAGGAAGCCAAGGGAGCAGTGCAATGGATTCTCAGTAAAGGTAGACATAG
AGAAGGAGGTGACCTGCCCCATCTGCCTGGAGCTCCTGACAGAACCTCTGAGCCTAGATTGTGGCCACAGCTTCT
GCCAAGCCTGCATCACTGCAAAGATCAAGGAGTCAGTGATCATCTCAAGAGGGGAAAGCAGCTGTCTGTGTGTC
AGACCAGATTCCAGCCTGGGAACCTCCGACCTAATCGGCATCTGGCCAACATAGTTGAGAGAGTCAAAGAGGTCA
AGATGAGCCACAGGAGGGGCAGAAGAGAGATGTCTGTGAGCACCATGGAAAAAACTCCAGATCTTCTGTAAGG
AGGATGGAAGATCATTGTCTGGGTTTGTGAACTGTCTCAGGAACACCAAGGTACCAAACATTCCGCATAAACG
AGGTGGTCAAGGAATGTCAGGAAAAGCTGCAGGTAGCCCTGCAGAGGCTGATAAAGGAGGATCAAGAGGCTGAGA
AGCTGGAAGATGACATCAGACAAGAGAGAACCGCCTGGAAGATCGAGAGACAGAAGATTCTGAAAGGGTTCAATG
AAATGAGAGTCATCTTGGACAATGAGGAGCAGAGAGAGCTGCAAAGCTGGAGGAAGGTGAGGTGAATGTGCTGG
ACAACCTGGCAGCAGCTACAGACCAGCTGGTCCAGCAGAGGCAGGATGCCAGCACGCTCATCTCAGATCTCCAGC
GGAGGTTGACGGGATCGTCAGTAGAGATGCTGCAGGATGTGATTGACGTCATGAAAAGGAGTGAAAGCTGGACAT
TGAAGAAGCCAAAATCTGTTTCCAAGAACTAAAGAGTGTATTCCGAGTACCAGATCTGAGTGGGATGCTGCAAG
TTCTTAAAGAGCTGACAGATGTCCAGTACTACTGGGTGGACGTGATGCTGAATCCAGGCAGTGCCACTTCGAATG
TTGCTATTTCTGTGGATCAGAGACAAGTGAAAAGCTGTACGCACCTGCACATTTAAGAATTCAAATCCATGTGATT
TTTCTGCTTTTGGTGTCTTCGGCTGCCAATATTTCTCTTCGGGGAAATATTACTGGGAAGTAGATGTGTCTGGAA
AGATTGCCTGGATCCTGGGCGTACACAGTAAAATAAGTAGTCTGAATAAAAGGAAGAGCTCTGGGTTTGTCTTTG
ATCCAAGTGTAATATTATTCAAAAGTTTACTCCAGATATAGACCTCAATATGGCTACTGGGTTATAGGATTACAGA
ATACATGTGAATATAATGCTTTTGGAGACTCCTCCTCTTCTGATCCCAAGGTTTTGACTCTCTTTATGGCTGTGC
TCCCTGTCTGATTGGGGTTTTCTTAGACTATGAGGCAGGCATTGTCTCATTTTTTCAATGTCACAAACCACGGAGC
ACTCATCTACAAGTTCTCTGGATGTCTGCTTTTCTCGACCTGCTTATCCGTATTTCAATCCTTGGAAGTGCCTAGT
CCCCATGACTGTGTGCCCCACCGAGCTCCTGAGTGTCTCATTCCTTTTACCCACTTCTGCATAGTAGCCCTTGTGC
TGAGACTCAGATTCTGCACCTGAGTTTCATCTCTACTGAGACCATCTCTTCCTTTCTTTCCCTTCTTTTACTTAG
AATGTCTTTGTATTTCATTGTCTAGGGCTTCCATAGCAAAGCATCATAGATTGCTGATTTAACTGTAATTGTATT
GCCGTACTGTGGGCTGGAAATCCCAAATCTAGATTCCAGCAGAGTTGGTTCTTTCTGAGGTCTGCAAGGAAGGGC
TCTGTTCCATGCCTCTCTCCTTGGCTTGTAGAAGGCATCTTGTCCTATGACTCTTCACATTGTCTTTATGTACA
TCTCTGTGCCCAAGTTTTCCCTTTTATTAAGACACCAGTCATACTGGCTCAGGGCCCACCGCTAATGCCTTAAT
GAAATCATTTTAACATTATATTCTCTACAAAGACCTTATTTCCAAATAAGATAATATTGGAGGTATTGGGAATA
AAATTTGAGGAAGGCACGATTTCACTCATAACAATCTTACCCTTTCTTGCAAGAGATGCTTGACATTATTTTCC
TAATACCTTGGTTTCACTAGTAGTAAACATTATTATTTTTTTTATATTGCAAAGGAAACATATCTAATCCTTCC
TATAGAAAGAACAGTATTGCTGTAATTCCTTTTCTTTCTCTCATTTCTCTGCCCCCTAAAAGATTGAAGAA
AGAGAACTTGTCAACTCATATCCACGTTATCTAGCAAAAGTCATAAGAATCTATCACTAAGTAATGTATCCTTC
AGAATGTGTTGGTTTACCAGTGACACCCCATATTTCATCACAAAATTAAAGCAAGAAGTCCATAGTAATTTATTTG
CTAATAGTGGATTTTTAATGCTCAGAGTTTCTGAGGTCAAATTTTATCTTTTCACTTACAAGCTCTATGATCTTA
AATAATTTACTTAATGTATTTTGGTGTATTTTCTCAAATTAATATTGGTGTTCAGACTATATCTAATTCCTCT
GATCACTTTGAGAAACAACTTTTATTAAATGTAAGGCACTTTTCTATGAATTTTAAATATAAAAAATAATATTG
TTCTGATTATTACTGAAAAGATGTCAGCCATTTCAATGTCTTGGGAAACAATTTTTTGTTTTTGTCTGTTTTCT
TTTTGCTTCAATAAAACAATAGCTGGCTCTAAAAA

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FIGURE 1005

MDFS VKVDIEKEVTCPICLELLTEPLSLDCGHSFCQACITAKIKESV IISRGESSCPVCQTRFQPGNLRPNRHLA
NIVERVKEVKMSPQEGQKRDVCEHHGKKLQIFCKEDGKVICWVCELSQEHQGHQTFRINEVVKECQEKLQVALQR
LIKEDQEAEKLEDDIRQERTAWKIERQKILKGFNEMRVILDNEEQRELQKLEEGEVNVLNLAATDQLVQQRQD
ASTLISDLQRRLTGSSVEMLQDVIDVMKRSESWTLKKPKSVSKKLKSVFRVPDL SGMLQVLKELTDVQYYWVDVM
LNPGSATS NVAISVDQRQVKTVRTCTFKNSNPCDFS AFGVFGCQYFSSGKYYWEVDVSGKIAWILGVHSKISSLN
KRKSSGF AFDPSVNYSKVYSRYRPQYGYWVIGLQNTCEYNAFEDSSSSDPKVLTLFMAVLPVVLGFS

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FIGURE 1006A

CGGACGCGTGGGTTGGATTTTTTCCGTGGATCTATCAATTCAATTTCGAATTTGGAAGAAAGAAGGAAAACATG
ACGTCTCCAGCCAAATTCAAAAAGGATAAGGAGATCATAGCAGAGTACGATACTCAGGTCAAAGAGATCCGTGCT
CAGCTCACAGAGCAGATGAAATGCCTGGACCAGCAGTGTGAGCTTCGGGTGCAACTGTTGCAGGACCTCCAGGAC
TTCTTCCGAAAGAAGGCAGAGATTGAGATGGACTACTCCCGCAACCTGGAGAAGCTGGCAGAACGCTTCTCGGCC
AAGACACGCAGCACCAAGGACCAGCAATTCAAGAAGGATCAGAATGTTCTCTCTCCAGTCAACTGCTGGAATCTC
CTCTTAAACCAGGTGAAGCGGGAAAGCAGGGACCATAACCACCCTGAGTGACATCTACCTGAATAATATCATTCTCT
CGATTTGTACAAGTCAGCGAGGACTCAGGAAGACTCTTTAAAAAGAGTAAAGAAGTCGGCCAGCAGCTCCAAGAT
GATTTGATGAAGGTCCTGAACGAGCTCTACTCGGTGATGAAGACATATCACATGTACAATGCCGACAGCATCAGT
GCTCAGAGCAAACATAAGGAGGCGGAGAAGCAGGAGGAGAAGCAAATTGGTAAATCGGTAAAGCAGGAGGACCGG
CAGACCCACGCTCCCTGACTCCACGGCCAACGTTTCGATTGAGGAGAAACATGTCCGGAGGAGCTCAGTGAAG
AAGATTGAGAAGATGAAGGAGAAGCGTCAAGCCAAGTACACGGAGAATAAGCTGAAGGCCATCAAAGCCCGGAAT
GAGTACTTGCTGGCTTTGGAGGCAACCAATGCATCTGTCTTCAAGTACTACATCCATGACCTATCTGACCTTATT
GATCAGTGTGTGACTTAGGCTACCATGCAAGTCTGAACCGGGCTCTACGCACCTTCTCTCTGCTGAGTTAAAC
CTGGAACAGTCGAAGCATGAGGGTCTGGATGCCATCGAGAATGCAGTAGAAAACCTGGATGCCACCAAGTACAAG
CAGCGCTCATGGAGATGTACAACAACGTTCTTCTGCCCCCTATGAAGTTTGAGTTTCAGCCCCACATGGGGGAT
ATGGCTTCCAGCTCTGTGCCAGCAGCCTGTCCAGAGTGAGCTGGTACAGAGATGCCAACAACTGCAGTCTCGC
TTATCCACTCTAAAGATTGAAAACGAAGAGGTAAAGAAGACAATGGAGGCCACCTGCAAACCATCCAGGACATT
GTGACTGTGAGGACTTTGATGTGTCTGACTGCTTCCAGTACAGCAACTCCATGGAGTCCGTCAAGTCCACGGTC
TCTGAAACCTTCATGAGCAAGCCCAGCATTGCTAAGAGGAGAGCCAACCAGCAAGAGACAGAGCAGTTTTATTTT
ACAAAAATGAAAGAGTACCTGGAGGGCAGGAACCTCATCACAAGTTACAAGCCAAGCATGACCTTCTGCAGAAA
ACCCTGGGAGAAAAGTCAGCGGACAGATTGCAGTCTAGCCAGGCGCAGCTCAACTGTGAGGAAACAGGACTCCAGC
CAGGCAATTCTCTGGTGGTGGAAAGCTGTATCCGGTTTATCAGCAGACACGGACTACAGCATGAAGGAATTTTC
CGGGTGTGAGGATCCAGGTGGAAGTGAATGACATCAAAAATGCCTTTGAGAGAGGAGAGGACCCCCCTGGCTGGG
GACCAGAACGACCATGACATGGATTCCATAGCTGGTGTCTGAAGCTTTACTTCCGGGGGCTGGAACACCCCTCTC
TTCCCCAAGGACATCTTTCATGACCTGATGGCTGCGTCACAATGGACAACCTGCAGGAGAGAGCTCTGCACATC
CGGAAAGTCTCTAGTCTTGCCAAAACCACTCTGATTATCATGAGATACCTCTTTGCTTCTCTCAATCATTTA
TCACAGTTTCAGTGAAGAGAACATGATGGACCCCTACAACCTCGCCATCTGCTTCCGGGCCCTCGCTAATGTGAGTG
CCAGAGGGCCACGACCAAGGTGTCCTGCCAAGCCCACGTGAATGAGCTGATCAAAACCATCATCATCCAGCATGAG
AACATCTTCCCAAGCCCCAGGGAGCTGGAGGGCCCTGTCTACAGCAGAGGAGGAAGCATGGAGGATTACTGTGAT
AGCCCTCATGGAGAGACTACCCCGGTTGAAGACTCAACCCAGGATGTGACCGCAGAGCACCACACGAGCGATGAC
GAATGTGAGCCCATCGAGGCCATTGCCAAGTTTGACTACGTGGGCGGACAGCCCGAGAGCTGTCTTTAAGAAG
GGAGCATCCCTGCTGCTTTACCAGCGGGCTTCCGACGACTGGTGGGAAGGCCGGCACAATGGCATCGACGGACTC
ATCCCCCATCAGTACATCGTGGTCCAAGACACCGAGGACGGTGTCTGAGAGAGGTCCAGCCCCAAGTCTGAGATT
GAGGTCAATTTCTGAGCCACCTGAAGAAAAGGTGACAGCCAGAGCGGGGGCCAGCTGTCCCAGTGGGGGTCTGTA
GCCGATATTTATCTTGCAAACATCAACAAGCAAAGGAAGCGTCCAGAATCTGGGAGCATCCGGAAAACTTTTCGG
AGTGACAGCCATGGGCTGAGCAGTTCCCTGACTGACTCCTCCTCCCCAGGGGTGGGGGCTAGCTGCCGCCCATCC
TCCCAGCCCATCATGAGCCAGAGCCTCCCCAAGAAGGGCCAGATAAGTGTTCCATCAGTGGGCACGGGAGCCTC
AACTCCATCAGCCGCCACTCATCCCTGAAGAATCGGCTGGATAGTCCACAGATCCGGAAGACTGCCACAGCGGGA
AGGTCAAAAAGCTTCAATAACCATCGGCCCATGGACCCTGAGGTCAATTGCTCAGGATATTGAGGCAACAATGAAC
TCGGCCCTGAATGAGCTACGGGAAC TAGAACGGCAGAGCAGTGTCAAACACACCCCTGACGTGGTTCTGGACACC
TTGGAGCCCCCTCAAAAACCTCCCCAGTGGTGGCCCCCACGTGAGAGCCCTCCAGCCCTCTGCACACCCAGCTCCTC
AAGGACCCCCGAGCCCGCCTTCCAGCGCAGCGCCAGTACTGCTGGGGACATCGCCTGCGCCTTCCGGCCTGTCAAG
TCTGTCAAGATGGCTGCCCCGGTCAAACCACCAGCCACACGGCCCAAGCCCACTGTCTTCCCCAAAACAAATGCC
ACTAGCCCTGGTGTCAACTCATCAACTTCCCCACAGTCTACTGACAAGTCTTGTACTGTCTGAGGGATAATAATT
TAATTGTTCTAGACAAGGGGACTATAGGGACTGACTGTTATTAATAATCTTCTATTTAACTAGCTTGGGGACTTC
AGTTGAAAATTAGGTTCTAAGTTGTTCTTGCAGGAATTAGCCTCCCCGTCTCCAAAACCTTGAGAATGAAGCCC
TTGGTATCGCCTCTCCCTTCCCACTGCCCTCTGCTTCCCCAGTCGTCGTAATTCAGCCAGCTGCAGTCCGTACC
GTTCTTAGGTTAGCCAGAGACAGGTTTTTCATTATCAGGTCAGTGTGAAATCTGGTAAGGCAGTCTGAGGACATG

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FIGURE 1006B

GGCTCAAGTCTCAGTCCCCTCAGACCACGGTGATGCCTTGACCAGATGGTTGGCTACTGCCATCCAGCTTTCAGT
GGCATCTTGTGTTTTGGGAAGTGAATATAGAGAATCATATATAGTCCAGTCTTCATTTTACATACACACACATATTT
TACACACACACACATTTTACACACACACACACACACACACACACATATGTTTTTCTAGTCTCTGGCATGTG
TAGCCTCTCCTGGTCATAGACCAGTCTCTTTGTAAGTTATTGTGGCAGTTTACACAGTAGCCACCAGGGGTCTCT
GTTTCCATTACAACTTTGTTCTGTCTGGGCCAGAGAACCTAGCCTTTGAAATCTCTCCATCATGTGAAACATAA
CGGGATGGGACAATCCCGTAACCTGTTTGGGGTTGGGGCTTTCTCTCTGTGTTCTTTCCATTGATGTGAATTGG
TCATTGGTGTTTGCTCTTGCTCTCCTCCATCCCCTAGAAGTACACCCCGTCTTATTAAGGAGCTTTTAAAGTT
TTTCTGAATGTATAGACATTTCTCGGGTTCCTACCTTTGTCTCTGATGGACCATTTTCCATTTAAGACATTTTCC
TGTATAAGACAGTTTTATAGCTGGTTCCTTTTAGGGTAAAGAGTCTTAAGAGAGTTTTATTGTGTCTATGGCAGG
TTTGGGAAAGGTAAGAAATGGGTCCCTTTTCTCCTAATGTTTTTGGCACTTAAACATAAAATTCATTATCCTA
TTAAAAAATTAAATTCAGCTTTGCTAATCCAGAAATTGTTCCCAAATGAAAACCTGTTTTTAAGTCCACCCCTTAG
TTTCTTATTTTACAAGGTCTCTCTTCAGGGACCAACAGGGGCTTAGAGAGCCTTAGTTAGATTAAAGGGAGACC
CTACCTCTTAAACCAGTTTTTCATTTATGCAAACAAGGACAATTAAGGGAACCCCTGACCCACAGGCTCTCAAGT
CTTCCCAAGGCCAGAATCGAAAAGAAAATTAAATTTGAATGCTGAATATTCTGGCTCTACTCTGGCCTTTTTTCT
GGTTCCCTTCCAAAATGCACAAATCATACCTTGTCTGCTCCAATTCAGTCTCCAAACCTGGTGCCTGTGCTCCT
GGCCCCCTAGCATCATGCTATCCCAGGAGTATCAGGACCAGACACATCCACAGCCAGGCTCATGGGTCTCAGAC
AGCAACTTGAGTTAAAGCTGAAACTCATCCTTCTTCTCTGTGTTTTCTGGTTTAAAGCTGCACCTATATTTTAG
CCTTATTATTTTCTGTAGTTCCGGAGAGATGGTGGGTGTCATTCTGGTAGGAAAATCTGAGTTTCTTATCTTT
GACCTAGAAGAGATTCTTTTTGGACCAACCTGCGAAATTGGTAGTTAGGTCTATGGAAAGTGGTAGGATTTTTTT
TTTTTTAATCCTGTGCAAAGGAAAAGAGGTGCTTTGTGGGAAATCACTAATGAGAAGGCTAACCTGCAGCACCAG
AGAAACCTTTCCAAGTGCTAGGCAGGAGAACTGAAGAATCTTTTCAAGTGAAGTGAAGTGAAGTGAAGTGAAG
CCACAGTCTTGATTTTTGTTGCTGTTTCTGACCTGTTCTTGCCTGTACCTGGGCCTACACAGGTCCCGAGCCA
ACGGGGCTTTTCATACCCAAGGATCTGTTTCTGCTGAAAATGAAACCTATCTTTCACTTTACATTCCTTTCAA
TCCAAGTATCAAACTGGTACCCACACTTGCCCTTTCTCCCTCTCTCCAGCACACTCCCCCTCTAAGAAAGTAAA
AGCAAAGCTTTCTTAATGGCAACACTTTGGGCCTGTTCTGTTGCTCCTGCCTTATTTCTCTTTCAACCCTGTACA
TGACTCGTGTTACCATCCCCCTTGATCAGTGTCCATCCGCGCTAATTTGCATCATGAAGTGAACAGTGTGTGAGT
GGTACCTACTAAACCCAGCTCTGGGGGCAGAGCTGTCTTCCCCATCTCTGGTGCTCCTAACACCTGTGAGATGG
TCCTGTGAGAGGACTAGGAACCGATAGGAGGAGAGTCTTCTCGGCAGAGCTCACTGCAAACAAGTGAATGA
GGTTGCACACTGTGATTTTTACACCGAAAAGCCAAAAGGAGCTGGCCATCCAGGGCCTAGGGAGACCAGCCTTCC
TCAGCTATGCTTGCCGAAACCAGCATGATGCTTCAAAGAGCCCTGCTCCACCCCTCATGGCATGGATCCTTTTCC
TGGTGTGGACTCTGAAGGGTCAGTCTTCGGGGAAGAGAGGTGGGGTGGGGCTACTAGCATCCCAATTTAGAAAAT
AGAGGAGTTTGTAGCCAGCAGCTGTAACTGGAAACACTGGTCTCAGCCAACCTCCTCAGGGCGCCCTGGCTTC
TCCCCAAGGAGATGAGGAGCGGTGATGCCAGCACCAGGATGCGCAGAGCACTGGAAGGGCTGGTGCAGATCTACT
TCCCATGCAGAAGAGAAGTCACATCTTCCAGGGAATCGCAATGTTGTGGCGTCTGACTTGTATGTCACATTTGTG
TAAATGGTATATTCTTTAAAAATAGTGTTGATAACTGGAATATTGTATGTATGCTTGGAGATGCTTTGTGTGAAC
CTAAGACTGTCACTCAACAGATGTTGGATTGGGGAATCCAAAGCACAACTTCAAAATAAAATACATTTTTTAGG
TTTCG

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FIGURE 1007

RTRGLDFFRGSINSQFEFGRKKENMTSPA KFKKDKEIIAEYDTQVKEIRAQLTEQMKCLDQQCELRVQLLQDLQD
FFRKKAEIEMDYSRNLEKLAERFLAKTRSTKDQQFKDQNVLSPVNCWNLLLNQVKRESRDHTTSLSDIYLNNIIP
RFVQVSEDSGRLFKKSKEVGQQLQDDLMKVLNELYSVMKTYHMYNADSI SAQSKLKEAEKQEEKQIGKSVKQEDR
QTPRSPDSTANVRIEEKHVRRSSVKKIEKMKEKRQAKYTENKLKAIKARNEYLLALEATNASVFKEYIHDLSDLI
DQCCDLGYHASLNRLRFTLSAELNLEQSKHEGLDAIENAVENLDATSDKQRLMEMYNNVFCPPMKFEFQPHMGD
MASQLCAQQPVQSELVQRCQQLQSRLSTLKIENEEVKKTMEATLQTIQDIVTVEDFDVSDCFQYSNSMESVKSTV
SETFMSKPSIAKRANQQETE QFYFTKMKEYLEGRNLITKLQAKHDLLOKTLGESQRTDCSLARRSSTVRKQDSS
QAIPLVVESCIRFISRHGLQHEGIFRVSGSQVEVNDIKNAFERGEDPLAGDQNDHMDSIAGVLKLYFRGLEHPL
FPKDIFHDLMACVTMDNLQERALHIRKVLLVLPKTTLIIMRYLFAFLNHL SQFSEENMMDPYNLAICFGPSLMSV
PEGHDQVSCQAHVNELIKTII IQHENIFPSPRELEGPVYSRGGSMEDYCDSPHGETTPVEDSTQDVTAEHHTSDD
ECEPIEAIKFDYVGR TARELSFKKGASLLLYQRASDDWWEGRHNGIDGLIPHQYIVVQDTE DGVVERSSPKSEI
EVI SE PEEKVTARAGASCPSGGHVADIYLANINKQRKPESGSIRKTFRSDSHGLSSSLTDSSSPGVGASCRPS
SQPIMSQSLPKGPDKCSISGHGSLNSISRHSSLKNRLDSPQIRKTATAGRSKSFNNHRPMDPEVIAQDIEATMN
SALNELRELERQSSVKHTPDVVLDTLEPLKTSPVVAPTSEPSSPLHTQLLKDPEPAFQRSASTAGDIACA FRPVK
SVKMAAPVKPPATRPKPTVFPKTNATSPGVNSSTSPQSTDKSCTV

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FIGURE 1008

CATCTTGCTCAGGGTGGTCCTCTGGGAGTCTTTCCCCAGGGCTGATGCTGGGTGCCCTGCCCCAGTGAGATATGT
GTGGGTGGTATCTGTAAAGAGGTTTGTCTTGCAAGTTGAAGGTGGGAAAAGAAGGAAGGGGGGGCATGCAATATGG
GTGAGGGTAGGGTATTACCTTTTTTTTGCAGCATTTTTCGGCCTCTTTATTTAGAACCCGGCGGACGAGGGGCGG
GGGCAGTGGTACAGACGGCTCAGGAACCATTTTAACAGACTTGTCTTCAAGTTTCAGATAAACACAGTCATAATA
AGAGAGACAGCGAAAGCGCGAAGAGACTGCAAGCTAGATGGGCATGTATGGCAGCTACAGCTTGTGAGTGACCCC
CTTCCCCAGAGTCCGCGATGAAAATAAAGTTACACTTGTCAATAACCAGATGTGGGAGATGGAGAGTGCCCTTGG
CATAACCAATAACCGAGCTAGTGCGTGGCAGAGCGGTCCACGCCTGGACATAAATAGAAAATATAAGTTAGTATA
ACTTTAAAACTTTTTGTACAAATATACATGGTTTTTTTATTTTTTCTTTTTTTTTCTTTTTCTTTTTTTTG
CACTGAGTTTCAGCAGAGATTAAACATTTTATATAAATGACTCTTAAAGCTTTACACCTTGGGACCAGTGTACCT
TCTCGTGAGAATACATTTAGATATAAAAAAGACGTTATTAATACATTGCACAGTTTTCAAATTTAAAAACAAAA
CCGAACGCTGCTCTGCGGCAGCCGCCCGCGGTGCTGCTACATGAACGGTCCCAGCCGAGGCCCAGCGCCCTTCC
AACGTCCGCTGCCCCGGCAGGTTCCCTCGGGGCTCTTTGGGCTCTAAATTGGCTCACCGCAGCCTCTTGCGCGGG
GTCTGCTCCACCGAGCCACGCCAGGGGCGGCGCTTGGAGAGGGACACGGCGCGGGGACATCGCCCGACGACTTC
TCAGGCGCTGATCTCTTGCGCTTGGCGAAGAAATCTGCACCGACTCGCGGATAGAACGCGGGCACCGAGTCGACT
GTCCACTTCGGTCCAGCTGCAGGCGTCCAGGGCCCCGCAGCGGCATGTCCTGCTGGAAGTCGTAATCCCAGCGGT
TCTGGTCCTCGGCGTTTCAGCTCGGCCAGGCGGGCCTGCAGCTCGCGGCTCAGCTCCTCGTGGTCCACCGGCCCGA
AGAGGCTGCGGCAGGCGCTGGTGCGCACTAGTGCTGGGAAGGTCCCACGGGCGACAGACGCTCCATCGTGGATGT
GCTGGCTGTCCGGTGGTTGACTCTTCTGCGTCGGGTCGCCTGTCT

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FIGURE 1009

ILLRVVLWESFPRADAGCPAPVRYVWVSVKRFLQLKVGKEGRGGMQYG

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FIGURE 1010

GACAGAGCAAGATCTTGTCTCAAAAAAAAAAACAGCTCTGGATGGGAAGGGAGGCCAGTTGCTTTAAGTAGGGGA
GATAGAGTTAAAGGAGGCTTTGTTTTATTTAAAGGTGGGACAACTTAAGCATGTTAATAAAATTCAGAGAAGAG
AAAGAGAATGACTATCAGAGCCATGTTTGGGAAGAAAATGGGGTCCAGAGCACAGGAAGGGGACCTGTGTTTCAGAG
GGTGCCCTCACTGCTGAGGCCACAGGAAAGAATCTGTAGGTGGAGGGGAGGCCGAAGAGGGGAAGTTTCATGCTTG
ATAATTAATAATTTTCTGAGATAGGAATGTCATATTTACCTATTTAAGCCAAGTTTTTTTAGATAAAAGGTATGGA
ACCTGCTTTCCCTTGGCTAGTTCAGCGTTTGGGCTCCGGAGTGCTGAAGATGAGGACTGGACTTCGAGCTGGTG
TGATCCCAGTATTCAGTGTGAGTACTCAGTGACAAAATAAATGAGAGAAACGGGAATAAGAATTGTCGCCTACAC
AAAAATACCAGCAACTGTTAACTCTTCCAGAAAGATTTTCATTCTGAATGCTCCTGTAGCTAGGAACCCCTAAAA
GTCTTTGAAGCAACTCAAGTTTTAAAAAAGGGGAGGAACCTCTGGAAATCTCAGGATGGGGCCAAGATGTGGCTG
GAGAGTGTGTGGTGATGGAGGGCGTGTCTTTTGCCGAGCACACTCAGGGCCCACGGGAAGCCCATAGACTTCAAG
GACATCAAGCCCCAAGGTGGTGGGATTTTCCCCACCAGTACTTGGCAGCCTAGGGGGGAAGGGGAGGGCGGGAGAA
GATAATGGGGATCCCTGGCTCCAAACATAGGAGGACACATCTGTGCTACAGTGCGCACATGCCTGGATGTACACT
CTGTCTTTGGAGACACTGGCTAAGATTCTCTGCTCCATGTTTGGACAGGGTCGTGCCTGATCTGAGATAAATGGA
CAAGAACAACCTGAAGCCTGTCTTCTGGTGATGTGTACCTGCCGATAACTGCATCTTGTGATAAAGTTGGGTGA
TTTACAGTCTCCACCAAATGCTAAACTCTGGGGTCTTACGCCTTTATAACTCCATGGGGCCCCAGCAAAGGTTTCAG
GCTCAAAACAGGTGTCAAATAGATAACTGTTGAATGATTGTTCCCCAGTTGCAGGCTCTGCCACCTGGCGTTTCAT
ACTGTCTGTGAAAGGACCCAGCTCACCTTTCCCTCTTTATCTCCAGTCTTCCCAACAGCGCCGACACCTCATG
GAAACTGATTGCAAATGTGCTACTTCTCACTTCTGTGTGGCCCGAGGAGGCTGGGTTAATGCTGGGCTTGGTACC
TTAAGCACCCCTTTCTCCCTTCCCCATCTTCATTCTCAGAATTACACCTGTCTGAAGCAGGCATTTTCCAATGCCC
TAGATGGGAATATAAGTGTAAGGAGATGTGAAGCATTTGCCTGTGTGTGAGAACATTCAGTGGGATCCTCATAG
GCATTCTAGAAAACCAAATCCTTGAAGATGACTAACCAGAAATGCCCGTCATAGCACTGTTTACAGTTGCAAAAA
CTGAAGCCAATTGAAATGTCCATCAGGAGGGGATTAAATGAATTATGGTACAGTTACACCGTTGAATATTTTACA
GCCATTGAAGATGATATATAGCTATATTCAATTGACAAGGAAAACCTCATATTTTTTAGTGAAAAAAGCAGGTTATA
GAATTGCATGATATTCACATTTATATAAACTTTATATATGGGAAGGATGTTGATTGAATTGTTAATAACTATGG
TCACCTCTAGAGATGGAAGTTTGCATTACCTTTAATTTTTAATACCATTTTGTATTGCTTAAATTTGTATGTAT
TATCGTTAAATAAGAAAAATCAAATAAAGCTATTTTCATTATGGGAACGAAAAAAATCTATGTCGGTGCGGA
GAAAGAGGTAATGAAATGGCA

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FIGURE 1011

DRARSLKKNSSGWEGRPVALSRGDRVKGGFVLFKGGTNLSMLIKFREEKENDYQSHVWKKMGSRAGEGDLCE
GASLLRPQERICRWRGGRGGEVSCLIKIF

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FIGURE 1012A

ATGAGGCGCTGC⁰GGTGGGCGGCCCTGGCCCTGGGGCTGCTGCGCCTCTGCTTGGCTCAGGCCAACTTCGCCCCG
CACTTCTTCGACAACGGGGTCGGCAGCACCAACGGAACATGGCTCTGTTAGCCTCCCAGAGGACACCCCTGTA
GGCTCTCACGTATACACCTGAATGGGACAGACCCTGAGGGAGACCCCATCTCCTACCACATCAGCTTTGACCCC
AGCACTAGAAGCGTCTTTTCTGTTGACCCCACTTTTGGAAACATCACCCCTGGTTGAAGAGCTGGACAGAGAGAGG
GAAGATGAGATTGAAGCCATCATCAGCATTCTGATGGCCTGAATCTGGTGGCCGAAAAAGTCGTGATCCTGGTG
ACCGATGCCAATGATGAGGCGCCAGGTTTATCCAGGAGCCTTATGTTGCCCTGGTTCCCGAGGACATACCTGCT
GGGAGCATCATCTTTAAGGTCCATGCAGTGGACAGGGACACAGGCTCTGGAGGGAGTGTACCTACTTCTCTGCAG
AACCTGCACTCCCCATTGCGGTGGACCGCCACAGCGGTGTGCTGCGCCTCCAGGCTGGGGCCACTCTGGACTAC
GAGAGGTCCCGGACCCACTACATCACCGTGGTCGCCAAGGATGGCGGTGGGAGGCTTCATGGGGCTGATGTGGTG
TTCTCAGCCACCACCGGTACCGTCAATGTGGAGGATGTTAGGACATGGCCCTGTCTTCGTGGGCACACCC
TACTATGGCTATGTGTACGAGGACACCCCTTCGGGGCTCGGAGGTAAGGTTGGTCCCATGGATGGAGACCGG
GGCAAACCCAATCGAATTCTCTACAGCCTTGTAATGGGAACGATGGAGCCTTTGAAATTAATGAGACATCTGGA
GCCATCTCCATCACTCAGAGCCCCGGCCAGCTCCAGAGAGAGGTGTATGAGCTGCATGTACAGGTGACTGAAATG
AGCCCTGCGGGGAGCCCAGCTGCCCAGGCCACCGTCCAGTCACCATCAGGATTGTGGACCTCAACAACACCCCG
CCAACATTCTATGGAGAGAGCGGACCCCAAAACAGGTTTGAGCTGTCCATGAATGAGCACCCACCCAGGGAGAG
ATCCTGCGGGGCTCAAGATCACCGTCAATGACTCCGACCAGGGAGCCAATGCCAAATTCAACTTGCAGCTGGTG
GGACCCAGGGGCATCTTCCGAGTGGTTCCACAGACAGTCTGAATGAAGCCCAAGTCACAATCATTGTGGAGAAC
TCAGCTGCCATTGACTTTGAAAAGTCCAAAGTATTAACCTTCAAGCTCCTGGCTGTTGAAGTGAACACCCAGAG
AAGTTTCAAGTTCACAGCGGATGTTGTGATCCAGCTCCTGACACCAATGACAATGTCCCCAAGTTCGACTCCCTC
TACTACGTTGCCAGGATTCTTGAGAACGCCCCAGGGGGCTCCAGCGTGGTGGCTGTACAGCTGTGGATCCAGAT
ACAGGACCTGGGGCGAAGTGAATATTCCACCTATGGGACTGGGGCAGACCTCTTCTGATCCACCCATCCACT
GGGCTTATCTACACCCAGCCCTGGGCTAGCCTGGACGCTGAGGCCACTGCCAGGTACAACCTTCTATGTGAAGGCA
GAGGACATGGAAGGCAAGTACAGCGTAGCTGAGGTGTTTATCACACTGCTGGATGTCAATGACCACCCCTCAG
TTTGGAAAGAGCGTTTCAAGAAGACGATGGTGCTAGGGACCCAGTGAATTTGAGGCCATAGACGAGGATGCA
GAGGAACCCAACAACCTGGTGGACTATTCCATCACCCATGCAGAGCCCGCCAACGTGTTTCGACATCAATTCCAC
ACGGGGGAGATCTGGCTCAAGAATTCCATCCGCTCCCTGGATGCCCTGCACAACATCACACCTGGAAGGGACTGC
CTATGGTCCCTAGAGGTGCAGGCCAAGGACCGGGGCTCCCCATCCTTACAGACCCACAGCCTTACTCAAGATTGAC
ATCACAGATGCTGAGACCTCTCCCGGAGCCCCATGGCTGCCTTCTGATACAGACCAAGGACAACCCCATGAAG
GCCGTGGGTGTGCTGGCCGGCACCATGGCCACCGTCTGGCCATCACTGTCTCTATCTCCACCGCCACCTTCTGG
CGCAACAAGAAGTCTAACAAGGTCTGCCAATGCGGCGGGTGTCTCGCAAGCGGGCCAGCCCTGCGCCCCGACCC
ATCCGCATTGAGTGGCTCAAGTCCAAGAGCACCAAAGCCGCTACCAAGTTTATGCTCAAAGAGAAACCTCCCAAT
GAGAACTGTAACAACAACAGCCCAGAAAGCTCTCTGCTCCCGAGAGCTCCGGCTCTCCCTCCACCCAGCGTG
GCGCCAGCACTGGCGCAGCCAGTGGACCGTGCTTACTGTCTCTGGCTCTCTCACTCCGCAGCCGACCCAAACC
CCGCCAAAACCCAAAATATGGGAAGCCCCGTCCAGTCAACTCTGATCTCTGAGCTCAAGCAAAAGTTTGAGAAG
AAGAGTGTGCACAACAAGGCTTACTTCTAGTGTATGCCCTATGACCCCCCATCTTTCTCCGCCCCCTGACCCCCA
CCACCCTGCTGCTCGGACTATGCTCCCCCTTCTGCTCCTTAAGGTCACTGACCCCTGTTTTGCACAATGGTAT
AATCCCCACTGTCTCATCTCTACCGCCACCTTCTGGCGCAACAAGAAGTTGCGCTCTGACAGGGCTCTAGTCAG
GGCCTTGGGCAAGACATTGGGCTCTAGGATGCAATTGGCAAATACGTCCCCGTTACTCAAATCCTTGGCACTACT
ACAATGCCCTCCATTCTTACGGGCTGAGAATTGACGAGAAGCCAGCTACCCATCCAGACCTCACAGTCCCTCA
GGTTCTACTGGGATCTCATCATCATCTTAGTCAAGCAGCAGGGCCCTGGCCACGTGGAGCAACACTGACTAGAA
TCTGGATCCTGACGCTGACAGCTGAGAGCAGGAGCAGGAAAAGGAGGCTCAGCACTGTCTCAGGCTGGAGGTGAG
CGAACCTCGTGGGCTGTAGGAAAGCAAATGTAGGTAAGGGGAGAGCAAGGATGCACAGAAAACACACTGACTGTG
GGACTGTGCCAGGATGCATTTGGAAGATAGAGCATTCTGTCTGGGCAGAGACTGTGGACCTGGTATGCCACG
TGGGACAGAGGACACAGAGGTGGAAGATTGATCTTGCCAAGAGTGAGGGCAGATGTCTCCAGCCAGGACTGCCCT
GAGCCGCAAAATGTCAAAGCTGGAGCTATAGAGGTAGCCCTAAAGGCAACTAGAAGAGCATCAGGGCTGCTCTCT
GAGGAGCTGCCCCACAGCCATCCTTGAAGAGACAATTCAGGGCAGTTGATGAATATCAGGGCTGAGATGTGGTG
AGACTTCCGTTTTTATCCAGCTCTTTTGTCTACATCGCGTAACCTTGGGAAAGCTGTTTAAAGTCGCTGATCATC
CTCTTCTCATCTGTAAATGAAGAAAGTAGGCCCTGTCTACCTCACATGCAGGTCTAGGGTGAGGATTGAAGAAA

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FIGURE 1012B

ATAGTGGTGATGAGGGCTTTAACCAAGTGCAAAGCGGCATGAATGCAAAGTATTTTTCTGCAGCCCAGTTCTGTG
GGTGCAGCTCTTCCAGAAAGTATTAGGAGCCTCACATCTACTCTGCCAAGCGCCCCAGCAGGCACTGTGCTGGGC
TTAGGGGCTACCACTGGATGATGGCATTGCCGTGACTCACACACCTCTACTTCTGTTCTTCCCTCACTCCATCCC
CGCTACCGTCCTGGCCAGCTACCGTCAGAGAGAACCAGAGCTCCAAGTCTTTAATTTGCCAAGATGAAGAAAATG
AGTTCTCAAGGAGGGAATGCTTTGCTTGAGGCCACACAGCAGGTTGGTAGCAAAGATCTTGTCTAGCCAGGGCAG
CCCTTATCAGCTTGTGACAACCTTCCCCAGGACAGAAGTCATACAAGGCCTCTGGGGTTAATACAAATAGGTTGT
GCCCTGCTTTAAGGAACCTGCTATCAGGAAATCTACATGTGTGCACAGAGAGAGAAAAGTAGAACAGTTCTTTGC
ATTTGGCTCTACTTACTAACAACCCCTCTAGAATACATTGGTGATTTTCAATTTAAAGAGATTGTATGCATTTGTGG
CTTTCCTGATTTCTGAGTCTGTGTTTGGAGGTGTTACTGAGATGTGCCAGTGTGCAGAATCCTTGCTGGGGTTTC
TACAGTCCCCAACGTGAACAGTATTAAGCAAGAGGTGGACTCGAGCAATCCAGGAGCCCAGACTGAGCAAATAAG
TACTTTCCAGCCTGTGTTTCAGGAGAGGACTGTGCTGGATCATGCTTGCCCTCCACAGGGAATACAGCATCCTTA
CAGCTTGCAATCAACCTCTTTTGTAATGGAATAAAGTCTGTTACCCAAAGGCCATGCTGATCCCCCTGC
TCCCTGCTTTTCAATTTATGTTTGCTGACCTGTGGAGACCAGTCTTTCTGACACACAGTGAAGCTCAACTTGCCCTC
TGGCTGCTTCAGCAGGTGGATCCATTCTTCGACCCCCAGATGTGACTCTAAAGAAGGCTGAAAAATTTTTGTCCAA
ATTGCCATGCAGATATCTTGAACAGCAGGACATTTGCAGGCCTTGTCTACTGGACTTTTCTCCCAAACAGGACAA
GCCCAGGCAGGGCTGCATGGAGAGGAATGGAACCTGGAGCTAGAATTAATTGCCCACTCTCCACCCCTACCAGTG
CAGCCCGCAAGGGCAGGAATTGGGAGGCCTAGGGTGGGCATGAAAGCTTGGAAGCACTGTCTCTCTCAGACA
GGCGTCTTAAAGACCTCTAGGCTGGAAGCTTGGGCTTGCAAGTGATCCGGGACCGAGGGTGGTCTCTTGGACAA
CCCCAGGAACCTTGGACCAAGGCAGAGCCAATCTTGCAAACCTGGCCATGGATGGGGAAGTGCCCGGTAGCCAGCAT
GAGCCACACTAGGAAAGAGGAGGAGGGTGCAGCCAACTTAAGGCACCGGCAAGTGTTGTCAGCACTGGAGGAGA
CCCCGCCAGTGGGGTGAGGCCAGCCAAGTCCCTGTGTTACGAATGGTGGGCCAAGGGGCTGTCTGCTAGGTCCCA
GTAGGACAGGCAGAGCTCCAGGCTGGCACCATGGTAGGCCTCCAGGGAAGAGCTGGGAGGCAGGAATGGCACAC
TGGGCAGGCTTGCCCATTCCTGGCCCTGAGAATGGAGCTGTAGCCTCATGGACAATAAATGGATGTGACACCAA
AAAAAAAAAAAA

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FIGURE 1013

MRRCRWAALALGLLLRLCLAQANFAPHFFDNGVGSTNGNMALFSLPEDTPVGSHVYTLNGTDPEGDPISYHISFDP
STRSVFSVDPTFGNITLVEELDREREDEIEAIIISISDGLNLVAEKVVILVTDANDEAPRFIQEPYVALVPEDIPA
GSIIFKVHAVDRDTGSGGSVITYFLQNLHSPFAVDRHSGVLRLOAGATLDYERSRTHYITVVAKDGGGRLHGADV
FSATTTVTNVNEDVQDMPVVFVGTPYYGYVYEDTLPGSEVLKVVAMDGDRGKPNRILYSLVNGNDGAFEINETSG
AISITQSPAQLQREVYELHVQVTEMSPAGSPAAQATVPVTIRIVDLNNHPPTFYGESGPQNRFELSMNEHPPQGE
ILRGLKITVNDSDQGANAKFNLQLVGPRGIFRVVPQTVLNEAQVTIIVENSAAIDFEKSKVLTFFKLLAVEVNTPE
KFSSTADVVIQLLDTNDNVPKFDSLYYVARIPENAPGGSSVAVTAVDPDTGPWGEVKYSTYGTGADLFLIHPST
GLIYTQPWASLDAAETARYNFYVKAEDMEGKYSVAEVFITLLDVNDHPPQFGKSVQKKTMLGTPVKIEAIDEDA
EEPNNLVDYSITHAEPANVFDINSHTGEIWLKNSIRSLDALHNITPGRDCLWSLEVQAKDRGSPSFSTALLKID
ITDAETLSRSPMAAFLIQTKDNPMKAVGVLAGTMATVVAITVLISTATFWRNKKSNKVLPMRRVLRKRPSAPRT
IRIEWLKSSTKAATKFMLKEKPPNENCNNNSPESSLLPRAPALPPPPSVAPSTGAAQWTVPTVSGSLTPQPTQP
PPKPKTMGSPVQSTLISELKQKFEKKS VHNKAYF

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FIGURE 1014A

ATGAAAGTGATCATAGTCACTGTTATCTCCAATACTGTCTCAGAGTTGACTGTTGTACACAAGTGAAATTAGATT
AGGTACAGATTAAATTCTACTTAAAATTTGTTCTTTATTGATTCCTTTAGGTTTCTTTAAACCAAGCTCATGCTA
TTTAGTCAGAACATGACTTCTAGAATGGTCTTCCAGAGTCAGAATTCTCTGTTTACAAAGATAAATTTCAAATGTA
GTATCCCTCTTTACATTCAGTGTTTCACCAAATAACTCATTATAGCCAGAAGAGGGTATTGCTTCTTTTCATTGT
GGCACTAGATAGGGTCTATGTTTTTCACTATTTAGTATGTATACATTTCTCCATATAACAGTAATAGGCTTCAG
GCTTTGAAGTGCTAGAATAGTTTTAGAAAGAAATGTTACAGATGTATGTTTATAGTTTTAATCATTGCCTCAGTGC
TTTCTTGTTGGCAGCGTGACAGGTATAAGGAGAGGGGCACTGGAGATTGTATTTCTGATGTCTTGAATGTCAAGTG
TGAAAAGTAACCAAGATTGCTTTCAGCTTTGTGAGATCAACATCATGAATTTGTTTTTCATTTCCTCTGGTTGGA
AGTTTCTAGGTTAGAAGCTGAGGTTTCAGTTACTTTAAATATGGAATTTGGGAACAGGGATTGAGGCTTCTAG
CACAGTAAATGTGACTGAATACCCTTTCTAAACTAAGTGGGGCACAATGATTTTTTTCTTCCATTTTTTTTT
ACATGACACTTTATTTCTTTTCACATGTTGACATGGCTTGTATTACATTCTAAATTTTCATCTGTTTCTGTAACTTT
AGCTGTGTCTATAACAGATAGAGCATCAGTCAAAGTGGAGTGGACAGGGAGAAAATGCTCTACTGGGGAAGCACT
CTGGAATCTTCTGATTAAAGTCATTTGCAAAAGATTAATAGCCATAAGCCTTACTCTTAATGGATCTGCCATTTCA
GTTTCAATGGCTTTTGAGGAAAAAGGAGTCATTTAAGGAAGGAGATAGGAAGTGTAGGCCGATCCATCCACTTTT
CTTAGTCTCCCAATTTTAAGAGACCCTTTCTTGCACAAAATTTTTTGTAACTTTCCATAAGTAAAGAGGAAGGTA
ATGGAGCCGTAGAAATGTCAACCCATCAAAGACTAGTTTGTCTGTCTATTACAACAAGGCATTTAGGGAACATCT
TTCCTTAATTTTACTAATAGACCAACCAAGGAAGCCTTCTGAATCGCTAGTAAGATTACAGCTCTGGGTGATTCTT
CATTTCTAATGGCTCATAGTGATTACAGTTTATGTTAATAATCACTCCTACTTCTGTCAACCTCCAGCAAGAGTA
AATTGATAGCAGGATAAAATTTAAAGTCTGATCTTAATGTCATAAATGTGACTAGAATATGGTACTAACTTTTTCG
GGTCTAGATAGCTGGAATGAGGCTTGCAAACAGTGTTATCTGGAGAGAGCTTGTCTGGTCTAACAACCTTTGTGTGA
TAATTTGGCATCTGATTAGAGAGCATGAGTCTGATAAATTTTATAATCCACACAGAGATCATGCTGTGGTTGGAC
ACATCATTTAATAATATTTAGCATGATATAATATTCATTTTCTCTACAGGAGCACAGACTCTTCTCATACTGG
ATTATTTTACCTTTGACAGTCATTTTCAATGACAGTAATTTTAAATAAAGCATCGTGTGCTTATAGAACCTGTG
CTTGAGTAAAAATAGTCTTCAAATAAAAAATAATGAAGTAAATTTTTACTTAGGCCATGCTTAATTGGAAGCATAG
AACTTAAATTGAGAAAAAATCCATATGATAGATTTTGTTTTTCTCATGCTTCCCTTTTGAATAATAGCAAATAA
TGCAGAGTAATGGTTCTAAGAGTTTCAGGGTAGATGAAGTCTGTAGGTTTTAGAAGTATAGAGTTGAAAAGAACCT
CCAAGAGGACTTATTTAATGAGTGAAATAAATGTCCTTAGATAGATATTGTCCCTAAACTCTTTTCTATTGAAAG
TTTATAGTATTGAAAATTTGATGATTATTAGTACCTAGTATAAATCAACATTCATCTGATGTTCTCTTTTTTAGAT
AGCCAAGTTATAACTTTTTTGAAAAGACATTATTGGACTAAGTTAGTAGGTCAGCCTTTTCTTTGATAGTGTGT
ACTCTTATCTGTCAACCAACCTTCTCCACACCCTCTTCTCTTCATTTCAGTTGTGGACAGCAGTAATTTTTTCAGG
ACCTTTGCTTCTTAGAGGAAAATACATTTTTCTTATTTTATATTTTTTAAAGATGTTTCTATTACATTATATATAG
CAAGAGATCTATTAAGGATCCAGAAAATCTTAACCTGTAGAGGATATGAGTTCCTCATCATAAGAATTAGTTTCC
TTGAGGGTTCTTTAGTATATTCTATTTACACAGTTTATGCATAAGTAAACTCTGTGGCCGATGTACATAAAAAAA
CCTATCACTTTTATGCTCATTTCCTCCTAATTCAGTGTCTGGGTCATGAGATGTTTGGTTCATAGCTTCAAAA
ACTGTTCAAGAAGACTGATTTTCAGTTCTCTCTATGTTGATCTTCCAGTTGAATCTGGAGTCTTCTGATTGTGGAA
AGGAGTAGCAGATCACATTATACTGAAAATTTGTCCTTTTCATTGAGAAATAAAGGTTGACTGAGCTACCTAAAGT
CACTTTTCTTTGGACTGTAAGCCTTAGAGAGAACAAATAACCTTTGCTTTTCTTGAGGTAGTATTAGAAAACCTC
TAGTTCCCATTTGATAGGATAAACTTGTTTTTCTCGTTTCATGGTCTTTTTATAGAAAACAGTCACAAAATCTTGAC
ATTTGGCATCCCTGAAAAGCTCAAGTGGCCTTTTCAAGTAGGGTATCATGTAGTATTCTGCAGGTTTACAGTCAG
TATCCTGCAAGGAAAGGTGACAACTTCTGTGAAGTTAGGAAGAAATATTAGTAACCCACACACTGAAGTGAG
TTTTCCATTTTACCTTGTAGAAATTGTACTAGAGATAGAACAAATGAAATTAGTTTTCTTTTCCAGGTATATCCT
GTGAGATACCAGCACAGAGTATTTTCTCTGAGTTCTCTCAGGGTTAAAGCTCAGTGAGCTTTTCTTTTCTCTTG
GTAGTGTGGAACCATTTGTACCGTAGAAAGAATAGCTGGAAATATGGAACCTCAATGTGGCAATACAGTAATAAA
CAGAAGGAATGAGTCAGTAGGATAATATATTCGAGTGATTTCTGTATATTTTCAGTTATAATGTTTTTTATATAGT
GTATATTTTCAGTTATTTTCAGTTATAATGTGTTTTAGAAATGTGGATTTAAGCCACCTTCTCACCTTTGCACCAGT
AGCTTTGTTAAACATTTTATTATGATCAAATAACAAGCCTGTTGCTTTTAAAGTAATCTAAGTATTAACAGAAGG
TAAGTCTTCAACTTCTCCCTGTTCTCACCTGGGCCAAGATCAATTTTCTAAATAAAAAATAGCTTTGTAATTTGT
CTCCAACAAAGAAATGGGAAATGGAAGGGAACACAAAACCTGTGGTCTGACAATACTAATTCTACCCGTTTTCAA

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FIGURE 1014B

TAAGAATAATTAACTTATAAAGTGATATACTGATTATTTTTGTGTTACTCTCCCTTTTTTTTGTAAAGTCAA
ATTCCAGAAGTAAAAATCTTTATCATACTGTTTCCCTCTTACTAAAAGTGAAGGGTAAAAATAGAAAGTTCAGCA
ACATCAGAAAATGTTGTATTTAAAATAATATGGAGAATAGGGGTTTTAAGTACATAAACCATATTGGCTTCCTTG
TAGGTTTACTTTTAGTATATAACATGAATATGTAGTGCTTCTTTTTACAATAATCAAAGTCATAGCTCCAAGATA
TTGACCTCTTTCTCAATCTATAACCTTTGTAGGCATGCATTTATACCAGCATGTTTTATAAATTATGAGTTTCTA
TCTGTGTCCATGAAGTCTTACTAGTTTTCACTTAACTTTTGIGGGTTGTTAAGAAGAATTAAAGTGATTCATAA
CTTNN
NNNNNNNNNNNNNNNNNNNTTCAACATCACACATCACACATCACACAGTGGTTCATAACATCAGATGAAGAAGGAGG
TGAGTGATATGTTAAATGATCAGAACTTGGCATTACATTATTTCCAGGACCATTTCCCTACCAAAGCTGTGTAT
TTTTCAATTTCTTCATGGCACTGTGCTGTTAATTTCTGTTAACATTTGTGCTAAAATGGAGTGTAATTTTACATA
TAAGTGTTAGAATTTTAGCTATCTTAGTTGAAACACAAAAAGTTGTTACTGATCCAATAAAATTATCAAAGGCCA
CAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTC

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FIGURE 1015

ESDHSYCYLQYCLRVDCCCTQVKLD

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FIGURE 1016

AAAAAAGAATCAAGCAGATGGCTTAAAGCTGGTTATAGGATTTCTCACATTCTTTTAGCATTATGCATGTAAC
TTAATTGTTTTAGAGCGTGTGCTGTTGTAACATCCCAGAGAAGAATGAAAAGGCACATGCTTTTATCCGTGACC
AGATTTTGTAGTCCAAAAAATGTATTTTTTGTGTGTTTACCACCTGCAACTATTGCACCTCTCTATTTGAATTTA
CTGTGGACCATGTGTGGTGTCTCTATGCCCTTTGAAAGCAGTTTTTATAAAAAGAAAGCCCGGGTCTGCAGAGAA
TGAAAACCTGGTTGGAACTAAAGGTTTCATTGTGTGTTAAGTGCAATTAATACAAGTTATTGTGCTTTTCAAAAATGT
ACACGGAAATCTGGACAGTGCTCCACAGATTGATACATTAGCCTTTGCTTTTTCTCTTTCCGGATAACCTTGTA
CATATTGAAACCTTTTAAGGATGCCAAGAATGCATTATTCCACAAAAAACAGCAGACCAACATATAGAGTGTTT
AAAATAGCATTCTGTTGGGCAAAATTCAAACTCTTGTGGTTCTAGGACTCACATCTGTTTCAGTTTTTCTCAGTTGT
ATATTGACCAGTGTTCTTTATTGCAAAAACATATACCCGATTTAGCAGTGTCAGCGTATTTTTTCTTCTCATCCT
GGAGCGTATTCAAGATCTTCCCAATACAAGAAAATTAATAAAAAATTTATATATAGGCAGCAGCAAAAAGAGCCAT
GTTCAAAATAGTCATTATGGGCTCAAATAGAAAGAAGACTTTTAAGTTTTAATCCAGTTTATCTGTTGAGTTCTG
TGAGCTACTGACCTCCTGAGACTGGCACTGTGTAAGTTTTAGTTGCCTACCCTAGCTCTTTTCTCGTACAATTTT
GCCAATACCAAGTTTCAATTTGTTTTTACAAAACATTATTCAAGCCACTAGAATTATCAAATATGACGCTATAGC
AGAGTAAATACTCTGATTAAGAGACCGGTACTAGCTAACTCCAAGAGATCGTTAGCAGCATCAGTCCACAAACAC
TTAGTGGCCCAATATATAGAGAGATAGAAAAGGTAGTTATAACTTGAAGCATGTATTTAATGCAAAATAGGCAC
GAAGGCACAGGTCTAAAATACTACATTGTCACCTGTAAGCTATACTTTTAAATATTTATTTTTTTTAAAGTATTT
TCTAGTCTTTTCTCTCTCTGTGGAATGGTGAAAGAGAGATGCCGTGTTTTGAAAGTAAGATGATGAAATGAATTT
TTAATTCAAGAAACATTGAGAAACATAGGAATTAACCTTAGAGAAATGATCTAATTTCCCTGTTACACAAACT
TTACACTTTAATCTGATGATTGGATATTTTATTTTAGTGAAACATCATCTTGTTAGCTAACTTTAAAAAATGGAT
GTAGAATGATTAAAGGTTGGTATGATTTTTTTTTTAATGTATCAGTTTGAACCTAGAATATTGAATTAATAATGCTG
TCTCAGTATTTTAAAAGCAAAAAGGAATGGAGGAAAATTGCATCTTACACCATTTTATATGCAGTGTAATTT
TGCTGGGCTAGAAATGAGATAAAGATTATTTATTTTTGTTTCATGTCTTGTACTTTTCTATTAAAAATCATTATG
AAATCCAAAAAA

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FIGURE 1017

MKRHMLLSVTRFLVQKNVFFCVFTTATIAPLYLNLLWTMCGVSMPFESSFYKKKARVCRE

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FIGURE 1018A

GGTCCTCCCCTTCTCCTCCCCTGCTCGCTGCAGACTCCCTCCTCACTGTGCTGCCGAGATCCACAGTCGGTTGT
GGCTCAGCCCCTGTTGCAGGGGACAAGTGAGGGAGACTTCCCTGTCTGCCCTGAGACGCCGCCCTCCCGGGGT
GGGGACAGAGCAGGTGCAGAGGCACTGCAGCTGCTCGGTTGCCAGCCTCCTGAATGATGCCAGCCAGTATGCT
CTAACCTCCAGCCTGGTTCTCCTGGTGCTGCTGAGCACAGCCAGAGCAGGCCCTTCTCTTACGGTCCAATGTG
ACACTGCCAGCCCCCGCCCCCTCCCCAGCCAGGGGGCCACACAGTGGGGGCTGGAGTGGGAAGCCCCTCTTCT
CAGCTTTACGAGCACACAGTGGAAGGAGGGGAGAAGCAGGTGGTATTACCCACCGCATTAACCTGCCCCCTTCC
ACTGGCTGTGGCTGTCCCCAGGCACCGAGCCCCCAGTCCTTGCTTCAGAGGTACAGGCCCTGAGGGTCCGTCTA
GAGATCCTGGAGGAGTTGGTGAAGGGGCTCAAGGAACAGTGCAGTGGGGGATGTTGCTCCTGCCTCTGCCAAGCT
GGCACAGGTACAGACAGATGTGCGGACCCCTCTGCAGTCTCCATGGTGTGTTGATCTGAGCCGCTGCACCTGTTCC
TGTGAGCCAGGCTGGGGTGGGCCCACCTGCTCAGACCCACAGATGCTGAGATCCCTCCCTCTTCCCCACCCCTCA
GCCTCGGGGTCTGCCAGATGACTGCAATGATCAGGGTCGCTGTGTCCGTGGTTCGTTGCGTGTGCTTTCCCGGC
TACACTGGCCCCAGCTGTGGCTGGCCATCCTGTCCCGGGGACTGCCAAGGCCGTGGGCGCTGCGTGCAGGGCGTG
TGTGTGTGCCGGGCAGGCTTCTCAGGCCCCGACTGCAGCCAGCGCTCCTGCCCTCGAGGTGCAGCCAGAGGGGA
CGCTGTGAGGGTGGGCGCTGCGTGTGTGACCCAGGCTACACTGGTGACGACTGTGGCATGAGGAGCTGCCCTCGC
GGTTGCAGTCAGAGGGGGCGCTGTGAGAATGGGCGCTGCGTGTGTAACCCCGCTACACTGGCGAGGACTGTGGG
GTGAGGAGCTGCCCTCGGGGCTGCAGCCAGCGGGGACGCTGCAAGGACGGGCGCTGCGTGTGTGACCCCGGCTAC
ACTGGCGAGGACTGTGGTACGCGGAGCTGCCCCTGGGACTGTGGCGAGGGCGGGCGCTGCGTGGACGGCCGCTGC
GTGTGCTGGCCCGGTACACAGGCGAGGACTGCAGCACGCGGACATGTCCGAGGACTGCCGGGGCCGCGGGCGC
TGCGAGGACGGCGAATGCATTTGCGACACGGGCTACAGCGGGGACGACTGCGGCGTGCAGCTGCCCTGGCGAC
TGCAACCAAAGGGGCCGCTGCGAGGACGGCCGCTGCGTGTGCTGGCCGGGGTACACTGGAACCGATTGCGGCTCG
CGCGCCTGCCACGCGACTGTAGAGGTGCGGGGCGCTGCGAGAACGGCGTGTGTGTTTGCAATGCGGGCTACAGC
GGCGAGGACTGCGGTGTGCGCAGCTGTCTGGGGACTGTGCTGGCCGGGGCCGCTGTGAGAGTGGCCGCTGCATG
TGTTGGCCGGGGTACACAGGCCGGGACTGCGGCACGCGCGCTGTCTGGCGACTGTGCGGGGCGGGGCGCTGC
GTGGATGGCCGCTGCGTGTGCAACCCGGGCTTACCGGTGAGGACTGTGGGAGCCGTGCTGTCCCGGGGACTGC
CGTGGGCACGGCCTTTGCGAGGATGGCGTGTGCGTGTGTGACGCAGGCTACTCAGGGGAAGACTGCAGCACGCGC
AGCTGCCCCGGGGGCTGCCGAGGCCGCGGCCAGTGCCTAGATGGGCGGTGTGTGTGCGAGGACGGCTACTCTGGC
GAGGATTGCGGTGTGAGGCAGTGCCGAATGACTGCAGCCAGCACGGCGTGTGCCAGGACGGTGTGTGCATCTGT
TGGGAAGGCTACGTGAGTGAGGACTGCAGCATCCGCACCTGCCCTCCAAGTCCACGGGAGGGGCCGCTGTGAG
GAAGGGCGCTGCTGTGCGACCCAGGCTACACCGGCCCTACCTGTGCCACCCGCATGTGCCGGCTGACTGCCGG
GGACGTGGGCGGTGTGTGCAAGGAGTGTGCTGTGCCACGTGGGCTATGGCGGTGAGGACTGCGGGCAGGAAGAG
CCTCCAGCCAGCGCTGCCCTGGAGGCTGCGGGCCCCGGGAAGTGTGCCGGGCAGGCCAGTGTGTGTGTGTAGAG
GGCTTCCGAGGCCCTGACTGTGCCATCCAGACATGCCAGGGGACTGCCGTGGCCGAGGAGAGTGTACGATGGC
AGCTGTGTCTGCAAGATGGGTATGCTGGCGAAGACTGCGGAGAAGCACGGGTTCCAAGCTCTGCCTCAGCCTAT
GACCAGAGAGGACTGGCCCCCTGGACAGGAGTACCAGGTCACTGTCCGAGCCCTTCGAGGGACAGCTGGGGCCTT
CCTGCCTCCAAGACCATCACCACCATGATCGATGGGCCCCAGGACCTCCGAGTGGTGGCTGTGACACCGACAACA
CTGGAGCTTGGCTGGCTGCGTCCCCAGGCTGAGGTGGACCGATTGTGGTGTCTACGTACGTGCGGCAACCAG
AGGGTGAGGCTGGAAGTGCCCCCTGAAGCAGACGGGACGCTGCTGACTGACCTGATGCCAGGCGTAGAATATGTG
GTGACTGTACAGCGGAGCGGGGCCGGGCAGTCAGCTACCCAGCTTCTGTGAGGGCCAACACAGAGGAAAGGGAG
GAGGAGTCCCCGCCAGGCCAAGCCTGTCCAGCCCCCACGGCGGCCTTGGGGCAACCTGACGGCCGAGCTGAGC
CGTTTCCGCGGCACGGTGCAGGACCTGGAGCGCCACCTGCGGGCTCACGGCTACCCACTGCGGGCCAACCAGACT
TACACGTGGTGGCGGCCACATCCATGAATACTTGACGCGGCAGGTGCTGGGCAGTTCCGCCGATGGCGCGCTT
CTCGTGTCTCTCGACGGGCTCCGCGGCCAGTTTCGAGCGCGTGGTGTGCGCTGGCGGCCTCAGCCGCTGCAGAG
GGCCCCGGCGGTGAGCTGACTGTGCCGGGCACCACGCGCACCGTCAGCCTGCCCGACCTCAGGCCCCGACACC
TACCACGTGGAGGTCCACGGGGTGCGGGCGGGGCAGACCTCCAAGTCTACGCCTTCAACACACAGGCCCC
TCGACGACGCAAGGGGCCAGGCTCCTCTCCTGCAGCAGCGCCCCAGGAGCTGGGAGAGTTGAGGGTGTGGGC
AGAGATGAGACAGGGCGCCTCCGTGTGGTCTGGACCGCCAGCCTGACACCTTTGCCTACTTCCAAGTGCATG
CGGGTGCCCCAGGGGCCGGGGGCACATGAGGAAGTGTGTCAGGGGACGTCCGCCAGGCTCTGGTGCCTCCACCC
CCTCCTGGAACCCGATGAGCTGTCACTTCATGGGGTCCCTCCTGGGGGCAAGCCCTCTGACCCCATCATCTAC

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FIGURE 1018B

CAAGGCATTATGGACAAGGATGAGGAGAAGCCTGGGAAGTCCTCAGGCCACACGCTGGGTGAGCTGACGGTG
ACAGACAGGACCTCCGACTCCTTGCTCCTGCGCTGGACGGTCCCCGAGGGCGAGTTTGACTCCTTCGTGATCCAG
TACAAAGACAGGGACGGGCAGCCCCAGGTGGTGCCCGTGGAAGGACCCAGCGCTCGGCCGTATCACCTCCCTG
GATCCTGGCCGCAAGTACAAATTTGTCCTGTATGGGTTTGTGGCAAGAAGAGGCATGGTCCGCTGGTGGCTGAA
GCCAAGATCTTGCCCTCAGAGTGACCCAAGTCCAGGGACTCCACCCACCTGGGAAACCTGTGGGTGACAGACCT
ACCCAGATTCACTGCACCTCTCCTGGACTGTCCCTGAGGGCCAGTTTGACACCTTCATGGTCCAGTACAGGGAC
AGGGATGGACGGCCCCAGGTGGTACCTGTGGAAGGGCCGAGCGTTTCAATTTGTTGTCTCCTCACTGGACCCCTGAC
CACAAGTACAGATTCACTCTGTTTGAATTGCGAACAAGAAGCGGTATGGCCCCCTCACGGCCGATGGCACCCT
GCTCCAGAGAGGAAAGAGGAGCCCCCGCCCTGAGTTCTTGAGCAGCCCCCTCCTGGGGGAACTGACAGTGACC
GGCGTGACCCCAAGTCTTGCGTCTCTCATGGACAGTGGCCAGGGCCCCCTTCGACTCATTTCATGGTCCAGTAC
AAGGATGCACAGGGGCGAGCCCCAGGCAGTGCCTGTTGCGGGGGATGAGAATGAGGTTACTGTCCCCGGCCTGGAT
CCCGACCGGAAGTATAAGATGAACCTCTACGGGCTTCGTGGCAGGCAGCGTGTGGGGCCCCGAGTCTGTGGTGGCC
AAGACTGCTCCTCAGGAGGATGTGGACGAGACCCCAAGCCCAAGAACTGGGCACGGAGGCCCCGGAGTCCCCC
GAGGAGCCGCTCCTGGGGGAGCTGACAGTGACAGGATCCTCCCTGATTGCTGAGCCTCTTCTGGACCGTCCCC
CAGGGCAGCTTCGACTCTTTCACCGTGACGTACAAGGACAGGGATGGGCGCCCCGGGCGGTGCGTGTGGGGGC
AAGGAGAGTGAGGTACCCGTGGGAGGCCCTAGAGCCCGGGCACAAGTACAAGATGCACCTGTACGGCCTCCACGAG
GGGCAGCGCGTGGGCCCCGTGTCGCCGTGGGCGTGACAGCCCCACAACAAGAAGAGACCCCTCCAGCCACTGAG
TCCCCGCTGGAGCCACGCTAGGAGAGCTGACAGTGACAGATGTGACCCCCAACTCTGTGGGCCTCTCCTGGACA
GTCCCCGAGGGCCAGTTTGACTCCTTCATAGTCCAGTACAAGGACAAGGACGGGCAGCCCCAGGTGGTGCCTGGTG
GCGGCAGACCAGCGAGAGGTCACAGTCTACAACCTGGAGCCTGAGAGAAAATATAAGATGAACATGTATGGACTA
CATGATGGGCAACGCATGGGCCCCCTGTCTGTGGTTCATCGTGACGGCCCCAGCCACAGAGGCTCCAAGCCTCCC
CTGGAGCCACGCTAGGGGAGCTGACAGTGACGGATATAACCCCTGACTCTGTGGGCCTCTCATGGACAGTCCCT
GAGGGTGAATTCGACTCCTTTGTGGTTTCAAGTACAAGGACAGGGACGGGCAGCCCCAGGTGGTGGCCGTGGCTGCA
GATCAGCGGGAGGTCACTATCCCTGACCTGGAACCTCCCGCAAGTACAAGTTTCTGCTCTTTGGGATCCAGGAT
GGGAAACGACGCAGCCCAGTCTCTGTGGAGGCAAAGACGGTTGCCCGAGGTGACGCCAGCCAGGGGCCCCACCC
CGCCTTGGGGAGCTGTGGGTGACAGACCCCAACCCAGACTCACTGCGCTCTCCTGGACGGTTCTGAGGGGCCAG
TTGACTCTTTTGTGGTCCAGTTCAAGGACAAAGACGGGCCCCAGGTGGTGGCCGTGGAGGGCCATGAGCGCTCT
GTCACTGTACCCCTCTGGATGCCGGCCGCAAGTACAGATTCTCTCTATGGCCTCCTGGGCAAGAAGCGCCAT
GGCCCTCTCACTGCCGACGGCACCACGGAAGCCCGGAGTGCTATGGATGATACTGGAACAAAGCGTCCCCCAAAA
CCCCGTCTGGGGGAGGAGCTGCAGGTGACCACCGTGACCCAGAATCCGTGGGCCTCTCCTGGACAGTCCCTGAG
GGCCAGTTTACTCCTTTGTGGTCCAGTACAAGACAGGGACGGGCAGCCCCAGGTGGTGGCCGTGGAGGGCAGC
CTCAGGGAGGTGACGCTGCCGGGCTGGACCTGCCCACAGGTACAAGCTGCTGCTCTACGGGCTGCACCACGGC
AAGCGTGTGGGCCCCATCTCGGCCGTGCCATTACTGCCGGCAGGGAAGAAACGAAACTGAGACCACGGCCCCG
ACCCCTCCAGCGCCTGAGCCCCACCTCGGGGAGTTGACAGTGAGGAGGCCACGTACACACCCTGCATCTCTCC
TGGATGGTACTGAGGGAGAATTTGACTCCTTCGAAATCCAGTACACAGATAGAGACGGGCAACTCCAAATGGTC
CGCATAGGAGGTGACCGGAATGACATCACCTCTCTGGCCTGGAATCCGACCACAGATACCTGGTGACCTGTAT
GGTTTCAGTGATGGGAAGCATGTAGGTCTGTCCATGTGAGGCCCTGACAGTCCCGGAGGAGGAGAAGCCTTCA
GAACCTCCCACCGCAACCCCCGAGCCCCCATCAAGCCTCGCCTGGGGGAGCTGACCGTGACAGATGCCACCCCT
GACTCCCTCAGCCTGTCTGGACAGTTCCCGAGGGACAGTTTGACCACTTCTGGTCCAGTACAGGAATGGAGAT
GGGCAGCCCCAAGGCAGTGAGGGTGGCAGGGCACGAGGAAGGGGTACCATCTCGGGCCTGGAGCCAGACCATAAA
TACAAGATGAACCTGTACGGCTTCCACGGTGGCCAGCGCATGGGCCCTGTGTCTGTCTGCTCGGGGTGACAGAACCC
AGCATGGAGGCCCCGAGCCCCGTGAGGAGCCGCTCCTGGGGGAGCTAACAGTGACAGGATCCTCCCTGACTCG
CTGAGCCTCTCCTGGACCGTCCCCCAGGGCCGCTTCGACTCCTTCACCGTGACGTACAAGGACAGGGACGGGCGG
CCCCAGGTGGTGCCTGTTGGGGGCGAGGAGGTGAAGTACCGTGGGGGGCCTGGAGCCTGGGCGCAAGTACAAG
ATGCACCTGTACGGCCTCCACGAGGGGCGGCGCGTGGGCCAGTGTCTGCTGTGGGCGTCACGGCCCCGAAGAG
GAGTCCCTGATGCTCCTCTTGCAAAGCTGCGCCTAGGGCAGATGACAGTGAGAGACATCACCTCCGACTCCCTC
AGCCTCTCCTGGACAGTCCCCGAGGGCCAGTTTGACCATTCTTGGTCCAGTTTAAGAATGGGGACGGGCAGCCC
AAGGCGGTGCGGGTGCCGGGACACGAGGATGGGGTACCATCTCGGGCCTGGAGCCAGACCACAAGTACAAGATG

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FIGURE 1018C

AACCTGTACGGCTTCCACGGTGGCCAGCGCGTGGGCCCCGTGTCTGCTGTTGGTTTAACTGCCTCGACAGAACCT
CCCACCCCTGAACCCCCATCAAGCCTCGCCTGGAGGAGCTGACCGTGACAGATGCGACCCCTGACTCCCTCAGC
CTGTCTGGACGGTTCCCGAGGGACAGTTTGACCACTTCCTGGTCCAGTACAAGAATGGGGATGGGCAGCCCCAAG
GCAACACGGGTGCCAGGACATGAGGACAGGGTCACCATCTCCGGCCTGGAGCCAGACAACAAGTACAAGATGAAC
CTGTACGGCTTCCACGGTGGCCAGCGTGTGGGCCCCGTGTCTGCCATCGGGGTGACAGAGGAAGAGACCCCCAGC
CCCACAGAACCCAGCATGGAGGCCCCGGAGCCCCCTGAGGAGCCGCTCCTGGGGGAGCTAACAGTGACAGGATCC
TCCCCTGACTCGCTGAGCCTCTCCTGGACCGTCCCCCAGGGCCGCTTCGACTCCTTCACCGTGACAGTACAAGGAC
AGGGACGGGCGGCCCCAGGTGGTGCCTGTGGGGGCGAGGAGAGCGAGGTACCGTGGGGGGCCTGGAGCCTGGG
CGCAAATACAAGATGCACCTGTATGGCCTCCACGAGGGGCGGCGCTGGGCCCCGTGTCCACCGTGGGCGTGACT
GCCCCACAAGAGGATGTGGACGAGACCCCCAGCCCTACAGAACCAGGCACAGAGGCCCCAGAGCCCCCGAGGAG
CCTCTCCTGGGGGAGCTGACAGTGACAGGATCCTCCCTGACTCGCTGAGCCTTTCTGGACCGTCCCCCAGGGC
CGCTTTGACTCCTTCACCGTGACAGTACAAGGACAGGGACGGGCGGCCCCAGGCGGTGCGTGTGGGGGGCCAGGAG
AGCAAGGTCACTGTGAGGGGCTGGAGCCTGGGCGCAAGTACAAGATGCACCTGTACGGCCTCCACGAGGGGCGG
CGCCTGGGCCCCGTGTCTGCCGTGGGCGTACAGAGGATGAAGCCGAGACCACCAAGCAGTGCCCTACCATGACC
CCTGAGCCCCCATCAAGCCTCGCCTGGGGGAGCTGACCATGACAGATGCCACCCCTGACTCCCTCAGCCTGTCC
TGGACGGTTCCCGAGGGCCAGTTTGACCACTTCCTGGTCCAGTACAGGAATGGGGATGGGCAGCCCCAAGGCGGTG
CGGGTGCCGGGGCACGAGGACGGGGTCACCATCTCAGGCCTGGAGCCAGACCATAAATACAAGATGAACCTGTAC
GGCTTCCACGGTGGCCAGCGCGTGGGCCCCATCTCTGTCTATTGGGGTGACGGAGGAAGAGACCCCCAGCCCCACG
GAACTCAGCACTGAGGCCCCGGGAGCCCCCTGAGGAGCCGCTCCTGGGGGAGCTGACAGTGACAGGATCCTCCCT
GACTCGCTGAGCCTCTCCTGGACCATCCCCCAGGGCCACTTCGACTCCTTCACCGTGACAGTACAAGGACAGGGAC
GGGCGGCCCCAGGTGATGCGTGTGACGGGCGAGGAGAGCGAGGTACCGTGGGGGGCCTGGAGCCCCGGGCGCAA
TACAAGATGCACCTGTACGGCCTCCACGAGGGGCGGCGTGTGGGCCCCGTGTCCACCGTGGGTGTGACAGTGCCC
ACCACAACCCCTGAGCCCCCAACAAGCCTCGCCTCGGGGAGCTGACCGTGACAGATGCCACCCCTGACTCCCTC
AGCCTGTCTGGATGGTCCCCGAGGGCCAGTTTGACCACTTCCTGGTCCAGTACAGGAATGGGGATGGGCAGCCC
AAGGTGGTGCGGGTGCCGGGGCACGAGGACGGGTACCATCTCAGGCCTGGAGCCAGACCACAAGTACAAGATG
AACCTGTACGGCTTCCACGGTGGCCAGCGCGTGGGCCCCATCTCTGTCTATTGGGGTGACAGAGGAAGAACTCCC
GCCCCACAGAACCCAGCACGGAGGCCCCGGAGCCCCCTGAGGAGCCGCTCCTGGGGGAGCTGACAGTGACAGGA
TCCTCCCCTGACTCGCTGAGCCTCTCCTGGACCATCCCCCAGGGCCGCTTCGACTCCTTCACTGTGCAGTACAAG
GACAGGGACGGGCGGCCCCAGGTGGTGCCTGTGACGGGCGAGGAGAGCGAGGTACCGTGGGGGGCCTGGAGCCC
GGGTGCAAATACAAGATGCACCTGTACGGCCTCCACGAGGGGCGAGCGTGGGCCCAGTGTCCGCTGTGGGTGTG
ACAGCTCCAAAGGATGAAGCCGAGACCACCAAGCAGTGCCCTACCATGACCCCTGAGCCCCCATCAAGCCTCGC
CTGGGGGAGCTGACCGTGACAGATGCCACCCCGACTCCCTCAGCCTGTCTGGATGGTTCCCGAGGGCCAGTTT
GACCACTTCCTGGTCCAGTACAGGAATGGGGATGGGCAGCCCAAGGCGGTGCGGGTGCCGGGGCACGAGGACGGG
GTCACCATCTCAGGCCTGGAGCCAGACCATAAATACAAGATGAACCTGTACGGCTTCCACGGTGGCCAGCGCGTA
GGCCCTGTGTCTGCCATTGGGGTGACGGAGGAAGAGACCCCCAGCCCCACAGAACCCAGCACTGAGGCCCCGGAG
GCCCCTGAGGAGCCGCTCCTGGGGGAGTTGACAGTGACAGGATCCTCCCTGACTCGCTGAGCCTCTCCTGGACC
GTCCCCCAGGGCCGCTTCGACTCCTTCACCGTGACAGTACAAGGACAGGGACGGGCGAGCCCCAGGTGGTGCCTGTG
AGGGGCGAGGAGAGCGAGGTACCGTGGGGGGCCTGGAGCCCGGGCGCAAATACAAGATGCATCTGTACGGCCTC
CACGAGGGGCGAGCGCGTGGGCCCAGTGTCCACCGTGGGCATCACGGCGCCCTGCCACACCACTGCCGGTGGAG
CCCCGCTGGGGGAGCTGGCGGTGGCGGCGTGACCTCGGACTCAGTGGGCCTCTCATGGACGGTGGCCAGGGC
CCCTTTGACTCCTTCCTGGTACAGTACAGGGACGCGCAGGGGCGAGCCCCAGGCAGTGCCCTGTGAGCGGAGACCTC
CGAGCGGTGCGCGTCTCGGGGCTGGACCCGGGCCGCAAGTACAAGTTCTGCTCTTTGGACTCCAGAATGGGAAA
CGCCACGGCCCAGTCCCTGTGGAGGCCAGGACCGCCCCAGACACCAACCGTCTCCCCGCTGGGGGAGCTGACT
GTGACAGATGCGACCCCTGACTCCGTGGGCCTCTCGTGGACGGTCCCTGAGGGCGAATTGACTCCTTCGTGGTC
CAGTACAAGGATAAGGATGGTCCGCTCCAGGTGGTGCCGTTGGCAGCCAACAGCGGGAGGTACAGTCCAGGGC
CTGGAGCCCAGTAGGAAATACAGGTTCTGTCTATGGTCTGTGAGGCAGGAAACGACTGGGCCCCATCTCTGCT
GACAGCACACAGCTCCCCTGAGAGAAGGAGCTACCTCCCCACCTGGGGGAAGTACCGTGGCTGAGGAGACCTCC
AGCTCTCTGCGCCTGTCTGACGGTAGCCAGGGCCCCCTTTGACTCCTTCGTGGTCCAGTACAGGGACACGGAC

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FIGURE 1018D

GGGCAGCCCAGGGCAGTGCCTGTGGCCGACAGCCAGCGCACAGTCACCGTAGAGGACCTGGAGCCTGGCAAGAAA
TACAAGTTTCTGCTCTACGGGCTCCTTGGGGAAAGCGCCTGGGCCCCGTCTCTGCCCTGGGAATGACAGCCCCA
GAAGAGGACACACCAGCCCCAGAGTTAGCCCCAGAGGCCCTGAGCCTCCTGAAGAGCCCCGCTAGGAGTGCTG
ACCGTGACCGACACAACCCAGACTCCATGCGCCTCTCGTGAGCGTGGCCCAGGGCCCCCTTTGATTCCCTTCGTG
GTCCAGTATGAGGACACGAACGGGCAGCCCCAGGCCTTGCTCGTGACGGCGACCAGAGCAAGATCCTCATCTCA
GGCCTGGAGCCCAGCACCCCTACAGGTTCCCTCTATGGCCTCCATGAAGGGAAGCGCCTGGGGCCCCCTCTCA
GCTGAGGGCACCACAGGGCTGGCTCCTGCTGGTCAGACCTCAGAGGAGTCAAGGCCCGCCTGTCCCAGCTGTCT
GTGACTGACGTGACCACAGTTCACTGAGGCTCAACTGGGAGGCCCCACCGGGGGCCTTCGACTCCTTCCTGCTC
CGCTTTGGGGTTCCATACCAAGCACTCTGGAGCCGCATCCGCGTCCACTGCTGCAGCGCGAGCTGATGGTGCCG
GGGACACGGCACTCGGCCGTGCTCCGGGACCTGCGTTCCGGGACTCTGTACAGCCTGACACTGTATGGGCTGCGA
GGACCCCAACAAGGCCGACAGCATCCAGGGAACCGCCCGCACCTCAGCCCAGTTCTGGAGAGCCCCCGTGACCTC
CAATTCAAGTGAATCAGGGAGACCTCAGCCAAGGTCAACTGGATGCCCCCACCATCCCGGGCGGACAGCTTCAAA
GTCTCCTACCAGCTGGCGGACGGAGGGGAGCCTCAGAGTGTGCAGGTGGATGGCCAGGCCCGGACCCAGAACTC
CAGGGGCTGATCCCAGGCGCTCGCTATGAGGTGACCGTGGTCTCGGTCCGAGGCTTTGAGGAGAGTGAGCCTCTC
ACAGGCTTCCTACACGGTTCTGACGGTCCCACACAGTTGCGTGCACTGAAGTTGACCGAGGGATTGCGCGTG
CTGCACTGGAAGCCCCCCCAGAATCCTGTGGACACCTATGACGTCCAGGTACAGCCCCTGGGGCCCCGCCTCTG
CAGGCGGAGACCCAGGCAGCGCGGTGGACTACCCCTGCATGACCTTGTCTCCACACCAACTACACCGCCACA
GTGCGTGGCCTGCGGGGGCCCCAACCTCACTTCCCCAGCCAGCATCACCTTACCACAGGGCTAGAGGCCCTCGG
GACTTGGAGGCCAAGGAAGTGACCCCCCGCACCGCCCTGCTCACTTGGACTGAGCCCCAGTCCGGCCCCGAGGC
TACCTGCTCAGCTTCCACACCCCTGGTGGACAGAACCAGGAGATCCTGCTCCCAGGAGGGATCACATCTCACCAG
CTCCTTGGCCTCTTTCCCTCCACCTCCTACAATGCACGGCTCCAGGCCATGTGGGGCCAGAGCCTCCTGCCGCC
GTGTCCACCTCTTTACACACGGGTGGGCTGCGGATCCCCCTCCCCAGGGACTGCGGGGAGGAGATGCAGAACGGA
GCCGGTGCTCCAGGACCAGCACCATCTTCTCAACGGCAACCGCGAGCGGCCCTGAACGTGTTTTGCGACATG
GAGACTGATGGGGGCGGCTGGCTGGTGTTCAGCGCCGATGGATGGACAGACAGACTTCTGGAGGGACTGGGAG
GACTATGCCCATGGTTTTGGGAACATCTCTGGAGAGTTCTGGCTGGGCAATGAGGCCCTGCACAGCCTGACACAG
GCAGGTGACTACTCCATGCGCGTGGACCTGCGGGCTGGGGACGAGGCTGTGTTGCCCCAGTACGACTCCTTCCAC
GTAGACTCGGCTGCGGAGTACTACCGCCTCCACTTGGAGGGCTACCACGGCACCGCAGGGGACTCCATGAGCTAC
CACAGCGGCAGTGTCTTCTCTGCCCCTGATCGGGACCCCAACAGCTTGCTCATCTCCTGCGCTGTCTCCTACCGA
GGGGCCTGGTGGTACAGGAAGTCCACTACGCCAACCTCAACGGGCTCTACGGGAGCACAGTGGACCATCAGGGA
GTGAGCTGGTACCACTGGAAGGGCTTCGAGTTCTCGGTGCCCTTACGGAAATGAAGCTGAGACCAAGAACTTT
CGCTCCCCAGCGGGGGGAGGCTGAGCTGCTGCCACCTCTCTCGCACCCAGTATGACTGCCGAGCACTGAGGGG
TCGCCCCGAGAGAAGAGCCAGGGTCTTACCACCCAGCGCTGGAGGAAGCCTTCTCTGCCAGCGATCTCGCAG
CACTGTGTTTACAGGGGGGAGGGGAGGGGTTCTGTACAGGAGCAATAAAGGAGAACTGAGGTACCCGG

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FIGURE 1019

MMPAQYALTSSLVLLVLLSTARAGPFSSRSNVTLPAPRPPPPQPGGHTVGAGVGSPSSQLYEHTVEGGEKQVVFTH
RINLPPSTGCGCPPGTEPPVLASEVQALRVRLIILEELVKGLKEQCTGGCCPASAQAGTGQTDVRTLCSLHGVPD
LSRCTCSCEPGWGGPTCSDPTDAEIPSSPPSASGSCPDNDQGRGRCVGRVCVFPGYTGPSCGWPSCPGDCQGR
GRCVQGVVCVCRAGFSGPDCSQRSCPRGCSQRGRCEGGRCVCDPGYTGDGCMRSCPRGCSQRGRCENGRCVCNPG
YTGEDCGVRSCPRGCSQRGRCKDGRVCVDPGYTGEDCGTRSCPDWDCGEGGRCVDGRVCVWPGYTGEDCSTRICPR
DCRGRGRCEDEGECIDTGYSGDDCGVRSCPDGNCQGRCEDGRCVWPGYTGTDGSRACPRDCRGRGRCENGVC
VCNAGYSGEDCGVRSCPDGCRGRGRCESGRMCWPGYTGRCGTRACPDGCRGRGRCDGRVCNPGFTGEDCGS
RRCPGDCRGHGLCEDGVCVCDAGYSGEDCSTRSCPGGCRGRGQCLDGRVCEDGYSGEDCGVRQCPNDCSQHGV
QDGVICWEGYVSEDCSIRTCPSNCHGRGRCEEGRCCLDPGYTGPTCATRMCPADCRGRGRVCVQGVCLCHVGYGG
EDCGQEEPPASACPGGCGPRELCRAGQCVVVEGFRGPDCAIQTCPGDCRGRGECHDGSVCCKDGYAGEDCGEARV
PSSASAYDQRLAPGQEYQVTVRALRGTSWGLPASKTITTMIDGPQDLRVAVTPTTLELGLWRPQAEVDRFVVS
YVSAGNQVRVLEVPPEADGTLTDLMPGVEYVTVTAERGRAVSYPASVRANTEEREESPPRPSLSQPPRRPWG
NLTAELSRFRGTVDLERHLRAHGYPLRANQTYTSVARHIHEYLRQVLGSSADGALLVSLDGLRGQFERVVLRW
RPQPPAEGPGGELTVPGTTRTVSLPDLRPGTTYHVEVHGVRAGQTSKSYAFITTTGPSTTQGAQAPLLQQRPOEL
GELRVLGRDETGRLRVWTAQPDTFAYFQLRMVPEGPGAHEEVLPGDVRQALVPPPPPGTPYELSLHGVPPGGK
PSDPIIYQGIMDKDEEKP GKSSGPPRLGELTVTDRTSDSLLLRTVPEGEFDSFVIQYKDRDGQPQVVPVEGPQR
SAVITSLDPGRKYKFVLYGFVGKKRHGPLVAEAKILPQSDPSPGTPPHLGNLWVTDPTPDSLHLSWTVPEGQFDT
FMVQYRDRDGRPQVVPVEGPERSFVVSLLDPDHKYRFTLFGIANKKRYGPLTADGTTAPERKEEPPRPEFLEQPL
LGELTVTGVTDPDSLRLSWTVAQGPFDSPMVQYKDAQGPQAVPVAGDENEVTVPGLDPDRKYKMPLYGLRGRQV
GPESVVAKTAPQEDVDETPSPTELGTAEPSPEEPLLGELTVTGSSPDSLFLWTVPQGSFDSFTVQYKDRDGRP
RAVRVGGKESEVTVGGLPEGHKYMHLGLHEGQRVGPVSAVGVTAPQCEETPPATESPLEPRLGELTVTDVTPN
SVGLSWTVPEGQFDSFIVQYKDKDGQPQVVPVAADQREVTVYNLEPERKYKMPLYGLHDGQRMGPLSVVIVTAPA
TEASKPPLEPRLGELTVTDITPDSVGLSWTVPEGEFDSFVVQYKDRDGQPQVVPVAADQREVTIPDLEPSRKYKF
LLFGIQDGKRRSPVSVEAKTVARGDASPGAPPRLGELWVTDPTPDSLRLSWTVPEGQFDSFVVQFKDKDGQPQVVP
VEGHERSVTVTPLDAGRKYRFLLYGLLGKKRHGPLTADGTTTEARSAMDDTGTKRPPKPRLGEEQLQVTTVTQNSVG
LSWTVPEGQFDSFVVQYKDRDGQPQVVPVEGSLREVSVPGLDPAHRYKLLLYGLHHGKRVGPISAVAITAGREET
ETETTAPTPPAPEPHLGELTVEEATSHTLHLSWMVTEGEFDSFEIQYTDR

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FIGURE 1020

GGCACGAGGGAGGTCTGCATGAAGGGGATCCCCACATCGCAGCCTACCAGAAGGAACTGGCTCATTCCCAGCCG
GCGGTGCAGCCCCGGCTCAAGCTGCTCCTGATGGGGCATAAGGCTGCAGGAAAGACTTTGCTGCGCCACTGCCTC
ACCGAGGAGAGAGTGGAGGGATGCCAGGAGGAGGGGACAAGGAGAAGTGCTACCCACCGTCACCTCCCCCTGTG
AGCAAGGGCATCGAGGTGACCAGCTGGACGGCCGATGCCTCCCGGGGCTGCGGTTTCATCGTGTATGACTTAGCT
GGGGATGAAAGTTATGAGGTGATCCAGCCCTTCTTCTGTCCCCAGGGGCCCTATACGTGCTGGTGGTCAACTTG
GCCACCTATGAGCCTCGCCACTTTCTTACCACCGTGGGCTCCTTCTTGCATCGGGTCGGGGCGAGAGTGCCCCAC
GCGGTGGTGTGCATCGTGGGCACCCACGCAGACCTGTGCGGAGAGCGTGAGCTGGAGGAGAAATGTCTGGACATT
CACCGCCAGATCGCCCTGCAGGAGAAGCACGACGCGGAGGGACTGAGCCGCTTGGCCAAGGTGGTGGACGAGGCA
CTGGCCCCGGGACTTCGAGCTGCGCTCTGCCAGCCCCACGCAGCCTACTATGGCGTTTCGGACAAGAACCTTCGA
CGGCGCAAGGCCCATTTTCAATACCTGCTCAACCACCGGCTGCAGATCCTCTCCCCCGTGTTCCTGTTAGCTGC
AGGGACCCGCGCCACTTACGACGCCTTCGGGACAAGTTGCTGTGAGTTCGCTGAGCACCGAGAGATCTTCCCCAAC
TTACACAGAGTACTGCCTCGATCCTGGCAGGTGCTGGAGGAACTGCATTTCAGCCACCTCAGGCCAGCGACTG
TGGCTAAGCTGGTGGGACTCGGCGCGCTTGGGCCTGCAGGCGGGTCTGACCGAGGACCGACTGCAGAGTGCCCTC
TCCTACCTGCATGAGAGCGGCAAGCTACTCTACTTTGAGGACAGTCCGGCTCTCAAGGAGCACGTCTTCCACAAC
CTCACCCGCCTCATCGACATCCTCAATGTCTTCTTCCAGAGGGATCCCTCTTTGCTGCTGCATAAGCTGCTCCTA
GGGACCAGTGGAGAGGGCAAGGCGGAGGGGAAAAGCTCCCCGCCCATGGCGCGGTCCACCCCCAGCCAGGAAGTG
CTCCGGGGCCACCCAGCTCCATCAGTATGTGGAGGGCTTTCTGTTGCATGGGCTCTTGCCAGCTCATGTATTGCGG
TTGCTGCTTAAGCCTCATGTCCAGGCCCAGCAGGACTTGCACTGTTGCTGGAGCTGCTGGAGAAGATGGGACTC
TGTTACTGCCTCAATAAACCCAAAGGGCAAGCCTTTGAATGGGTCCACAGCTTGGTACAAGTTCCTATGCTATGTG
CAGAACGAGGTGCCCCATGCAGAAGCCTGGATTAATGGGACCAACCTAGCTGGGCAGTCTTTTGTGGCTGAGCAG
TTGCAGATTGAATATAGCTTTTCTTTTACTTTTCCACCTGGGTGTTTGTGACGCTACAGTGTCCAGATCAACAGC
CATGTGGTGCACAGGTTCGATGGTAAATTTAGATCTTTGCCTATAGAGGGAAAGTTCTGTGGTTGTGAGTTAC
AGACCTGCCAGGGGAGTCTGCAGCCAGACACCTGTCCATTGCTAGCCATGCATCATTACCAAATATATGGACC
GCATGGCAAGCCATAACCCCTTGGTGGAGGAACTGAATGTCTTACTTCAGGAATGGCCTGGACTGCACTACACC
GTGCACATTCTCTGTTCTAAGTGCCTTAAGAGAGGATCGCCCAATCCACATGCTTTTCCAGGGGAGTTGCTGAGT
CAGCCCAGACCGGAAGGAGTGGCAGAGATCATTTGCCCAAGAACGGCAGCGAGCGAGTAAATGTTGCCTTGGTT
TACCCACCCACGCCGACTGTGATCAGCCCCTGTTCGAAGAAGTGTGGTGAAGAAGCACAGAAACAGTGACGT
TTGTGGCTGTGGAATTTCCATGGAGAAAAGAGAGCATCTGAACACCTGGACCATCTTTTGACCTGGCAGACCT
CTGCACTCACCCACGCTGTTCTGTGAACCTGAGTGACAACGCGTGCTTGAGGGTGCTTTTGGATGACTGGGG
AAGAGGTGGGGAGGGGGTGGTGGGGGGAAGCATGGACGAGAACATGGAGCAAATGTTTTACAACCTGAACCTCAG
AACTGTGATCCTCCAAGGAGCGCGCTACTTGAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1021

GCGGCCGCCCAACATCAGAATGGTATAGGCCAGTAGACCCCCGGTCACCCTGAGGCTGGTGGTCCCTGCTAGTC
AGTGTGGCTCTCTCATTGGAAAAGGTGGATGCAAGATCAAGGAAATACGAGAGAGTACAGGGGCTCAGGTCCAGG
TGGCAGGGGATATGCTACCCAACTCAACTGAGCGGGCCATCACTATTGCTGGCATTCCACAATCCATCATTGAGT
GTGTCAAACAGATCTGCGTGGTCATGTTGGGAGACTCTCTCCAGTCCCCCGAAGGGCGTGACCATCCCGTACC
GGCCCAAGCCGTCCAGCTCTCCGGTCATCTTTGCAAGTGGTCAGGACAGGTACAGCACAGGCAGCGACAGTGCGA
GCTTTCCCCACACCACCCCGTCCATGTGCCTCAACCCTGACCTGGAGGGACCACCTCTAGAGGCCTATACCATT
AAGGACAGTATGCCATTCCACAGCCAGATTTGACCAAGCTGCACCAGTTGGCAATGCAACAGTCTCATTTTCCCA
TGACGCATGGCAACACCGGATTCAAGTGGTATGGATACCTCAGTGTATTTCTGTAAAGGTGTAGTGCAAGAGAGA
GGCCAGTCCCAAGGTCTCAGCTTGACATCTGTTTAAACAAACTTCGTTATCCAGCATCCTGCTGGTTTAAACTT
GCCTGTCTACTATGGCTAAGCCCAAGGAGGTAATGTGTTTGTAAACGTGGTTTTTCATTTGGGGTCAGTTATTCTA
AAAGAAAAAAGCCCTGGAAGGTTTGGGGGTGAGGTTTGGGGATGCTTGTTCAGGCAAAGGGTAGGCTGATATT
TCTTTGAGCCCATCCTGACTGCTGCCCCCTTGATCTGATCAGCACCCCTTTCTCTCCACCAGCAATTCACAGGC
TTGGGTAGAGACCATCCATTTGTGCCAAATTGTGTAGTGTTTTTTTTGTTTTTGTTTTTATTTTGTTC
GTTTTTGGGGCTTTTCTGTATAAGGAATAACTTGTCGATAGGGTTAGGATGAGACCACCAAACTCATTTTCACT
TGTATCTTAACAGGCATTGAATCCAGCTCTCCAGAGGTGAAAGGCTATTGGGGTAATGATTAAAAAATAAAT
CTGTAGTATTCTACGGTTATATTAATAAACGGGGGGGAGTCTGGTTTCACTGCCCATGAACCATAACCAGCAACAT
GCACATGGCAGAGAGGAGCTGAGAGAGCAAAGGGGTGGGCCTGGAGCCCCGAGGGTCCCTTGATGGATCTGGCC
AACCCCTTCTAAAAATGATGAGACAGCAGCCATAGCTGAGATCAGGACTAAGCTTGAGTGTTAGCCAGCTGGCC
TGGTTCAGTCCAGGTGTTGTTAAAGATGGGTACGGGTATTTGCTGATGGGATTTTTTTTTCTTTCTTTTCTTTG
GAAAACAAAATGAAAGCCAGAACAAAATTATTGAACAAAAGACAGGGACTAAATCTGGAGAAATGAAGTCCCTC
ACCTGACTGCCATTTTCACTCTATCTGACCTTCCAGTCTAGCAGGTTTGGATGCATCTGCTCAGACTACTTCTCAT
GAACTCACCATTCCAAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATCAATGAGATCCGTCAG
ATGTCTGGGGCGCAGATTAAAAATTGGTGACCCAGTGGAAGGATCTACTGATAGGCAGGTTA

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FIGURE 1022

MLPNSTERAITIAGIPQSIIECVKQICVVMLETLSQSPPKGVTIPIYRKPSSSEVIFAGGQDRYSTGSDSASFPH
TTPSMCLNPDLEGPPLEAYTIQGQYAIQPDLTKLHQLAMQQSHFPMTHGNTGFSGMDTSVFISVRCSARERPVP
RSQLDICLKQTSLSILLV

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FIGURE 1023

ATGGCTGAGACGGAGGAGCGGAGCCTGGACAACTTCTTTGCCAAGAGGGACAAGAAGAAGAAGGAGCGGAGC
AACC~~GGGCGGCGAGTGCCGCGGGCGCAGCGGGCAGCGCCGGCGGAAGCAGTGGAGCCGCGGGTGC~~GGCGGGCGGC
GGGGCGGGCGCGGGGACCCGGCCGGGTGACGGCGGGACCGCCAGCGCGGGGGCTGCGGGCCCAGGGGCCGCCACC
AAGGCTGTGACGAAGGACGAAGATGAATGGAAAGAATTGGAGCAAAAAGAGGTTGATTACAGCGGCCTCAGGGTT
CAGGCAATGCAAATAAGCAGTGAAGGAAGAAGACGATAATGAAAAGAGACAAGATCCAGGTGATAACTGGGAA
GAAGGTGGAGGTGGTGGTGGAGGTATGAAAAATCTTCAGGTCCCTGGAATAAAACAGCTCCAGTACAAGCACCT
CCTGCTCCAGTAATTGTTACAGAAACCCAGAACCGATGACTAGTGGTGTGTATAGGCCTCCTGGGGCCAGG
TTAACCACAACAAGGAAAACACCACAAGGACCACCAGAAATCTACAGTGATACACAGTTCCCATCCCTGCAGTCA
ACTGCCAAGCATGTAGAAAGCCGGAAGGATAAAGAAATGGAGAAGAGCTTTGAAGTAGTAAGACACAAAAATAGA
GGTAGGGATGAGGTTTCAAAAAACCGGCCCTTAACTTCAGCTAGACAACCAATATGCTGTGCTTGAAAAATCAG
AAAAGCAGCCACTCACAATACAATTAA

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FIGURE 1024

MAETEERSLDNFFAKRDKKKKKERSNRAASAAGAAGSAGGSSGAAGAAGGGAGAGTRPGDGGTASAGAAGPGAAT
KAVTKDEDEWKELEQKEVDYSGLRVQAMQISSEKEEDDNEKRQDPGDNWEEGGGGGGMEKSSGPWNKTAPVQAP
PAPVIVTETPEPAMTSGVYRPPGARLTTRKTPQGPPEIYSDTQFPSLQSTAKHVESRKDKEMEKSFEVVRHKNR
GRDEVSKNQALKLQLDNQYAVLENQKSSHSQYN

[illegible]

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FIGURE 1026

GAGSHGSLLLALRRPRELGLLRSHREGPPPRRLLARVTLPPAISSGPRCLLPDLAPSSSEPGACLGGLSVFTMEQ
LSSANTRFALDLFLALSENNPAGNIFISPFSSISSAMAMVFLGTRGNTAAQLSKTFHFNTVEEVHSRFQSLNADIN
KRGASYILKLANRLYGEKTYNFLPEFLVSTQKTYGADLASVDFQHASEDARKTINQWVKGQTEGKIPELLASGMV
DNMTKLVLVNAIYFKGNWKDKFMKEATTNAPFRLNKKDRKTVKMMYQKKKFAYGYIEDLKCRVLELPYQGEELSM
VILLPDDIEDESTGLKKIEEQLTLEKLHEWTKPENLDFIEVNVSLPRFKLEESYTLNSDLARLGVQDLFNSSKAD
LSGMSGARDIFISKIVHKSFVEVNEEGTEAAAATAGIATFCMLMPEENFTADHPFLFFIRHNSSGSILFLGRFSS
P

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FIGURE 1027

GCCAAAATGAAGTTTAAATCCCTTTGTGACTTCCGACCGAAGCAAGAATCGCAAAGGCATTTCATGCACCTTCC
CACATTCTGAAGGAAGATTATGTCTTCCCCTCTTTCCAAAGAGCTGAGACAGAAGTACAACGTGCGATCCATGCCC
ATCCGAAAGGATGATGAAGTTCAGGTTGTACGTGGACACTATAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTT
TACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCGGGAAAAGGCTAATGGCACAACGTCCACGTAGGC
ATTCACCCCAGCAAGGTGGTTATCACTAGGCTAAACTGGACAAAGACCGCAAAAAGATCCTCGAACGGGAAAGCC
AAATCTCGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGAAGAAACCATTGAGAAGATGCAGGAATAAAGTAAT
CTTATATACAAGCTTTGATTAAACTTGAAACAAAAAAAAGGGGAAGAAACGACAGCCTCACTTCTGTATGGAC
TGCTGATGTGGCCTGCCATCCTGTTTCAGCGGGCATTGTCTTTGGAGCAGCAGGAGACTAGGATGCCTCTCACTCA
CATCGAGTTCCTGGCTGGCCAGCTGCTCAGGGCTCAGGCTGGGGCCTCCCATTGACATCCTCCCCCTACACTCCC
TCTCTGAGCCTCCGTCGCCCCCTCCIGTTGGGTAAGGGTGTTGAGTGTGACTTGTGCTGAAAACCTGGTTCATATA
TAATAAATAATGGTGATGAAAAG

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FIGURE 1028

MKFNPFVTSDRSKNRKRHFNAPSHIRRKIMSSPLSKELRQKYNVRSMPIRKDDEVQVVRGHHYKGQQIGKVQVYR
KKYVIYIERVQREKANGTTVHVGIHPSKVVITRLKLDKDRKKILERKAKSRQVGKEKGKYKEETIEKMQE

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FIGURE 1029

GGCGCCATTTTGCTGGAGCCTGCGACCGAGTGGGAGTGGAGTGGAGCGGCTGTGGTTGCCGACTCTTTCCTCTTC
CCCACGGTCCAGTCAGCGGGTTAATTAGGCCATCGGCCCTCGAGCCGAGACTTGTCTCTTATTTAGTTCTGGGGA
GCGCCTCGTCGACATGAGTGATGTGGAGGAAAACAACTTCGAGGGCAGAGTGAGTACAAAGCCGCGGGAGCCGTC
TAGGCGGCGGCCCAATGCTCGGGGTTTCACGGGAACAAGCGCGGTTCGGGCGGGGTTGCGGGTAGTCCCGCGAGGA
GCAACCTCTGGAGCCATCGCGATTGATTCCCTCCCATCCCAAGATGGCTTCTGGGTTCCTCTTCCCCAAACAC
CACGGATAACACCCCTCCCCCTTTTTTGGAGGCTGACTGATACCTGGACTTCTGGGTCTCTTCCCTCCCCGCCC
CCGCATTGCTTCTCTCTTCTCCCCACCCCTGAGGCTTCTTATGTCTGCTCCGAGGTGTGGGTCCCCGTGCGGG
TTGGGCGGGAGGAGGCGGCAGGGAGCTCCCTCCGTCCGGATAGTGGTAGGTGCTTCTGCGGTGGCATTCTG
CGACCCCGAGCATCGTAGAGGTCTCGGGATCGAAAGTGC GCGGGGCTGCTTTCGGGCGGGGAGAAGCTGGCGT
GGGACTAGCTGGGGCCTGTGTCTCCTTGGCTCTCTATTTAGTGAGCGGCCGCGTCTCTGTTGGAACCGGCGGCG
TTGCGTCTAAAAAGGCGAAAGCCTTGAGGTTGAAGGTGGGACGAGCCTAATGAAGTGGTTAGTCAACGACCGCAC
CGACCCCTAAGCGTTCTTAAGACGAGAGCTGTGAGGGGAAACTACGCAAGGAGCCCTTTTCCCTTAATGTCCCTT
CGACTTCTCTTCACTTCGAAATGAATGTGGAAATGCTGTACGCTTATTTTTCTAATTCCTCGATGTTGGGTT
TTTTCTCTTCTTTATATCTCAACTTTTAAATGCTCTTCTTCTTATGACCTTTCATCTAAAACTGACCACTCCTTT
ACAGGTTTTTACGGTAAAAAAAAAAAAATCGGTCTTTCTTTAATCTTACATAGCTGAACGAATTCATTGGCTCAG
TATTTTTAAGATACTAGTCAGTATATACTGTTCTGTAACTTAAAGATGACCTGAAAATTAACAGGCCCTCTCC
CATTTCTCTTCTCACTCTATCCCCACCGAAGAGGGCTCAGAAAAAGTTTTTATTAATATATTTGGGGTCGGAG
AAATACAAACATCACAAAGAATACGATATCCCCAGCTTAAATGTACTGGAACGTTTGTGAGTGAGTTTCATTTC
AAAGTTTACCCTACATAGGGAATTGTAGAAGTGAGTTAGTAGAAGTGAGTTCGTGTGAAACCCTGGAAAGAAAAC
AAAAGCCCCATGCAACACGTTCCGGGCTGTTGTGTAGATGTTTATTCTAGTCACTAGGGGAAGCACATAAAAAACA
CCTGAGGTGTGTGTGCTGAAGGGCGAATTTTGTCTTTTGGGGAGTTCATGATATAAACATCTAGAACCAAAAAG
TCAAAATCAGAAGGTCAGTTTAGGCTTTAGTTCTCTTTGAGGAAAGATTTAAAGCAATAGACTATAATAGTTACCC
GGTAGACTAAAAAATTTGCCTTTAATTCTTTTGATTGGAATTTTTTTTTACAAAGTTTGGAGCATGGAAACAAAT
GAAAATTGAACCTGCTTATTTTTTTAGGATGGTGTATTGATGGCCCCAACAGAACTTTCTAAAATCATGCGATAAA
CATATATGATAGTAGTTGTAAAATGCTTCTTGTGTTTAAAAATGTTGAGTAATTATCGATAGAAATTTGCTGTCC
ATTCATACATTCTTCAATTAACCTTTCATTGTTAAAAAATGGGGGATTGATGTTTGGTTTGGTTTGTGGGGAGT
GAAGAGGACTACTGGAGGGACCTTGTTTGCTTGCTTTTTTTCTTTTTTTAATTTATCATCAAGTCTAGGAAAGGA
GTAAGTTGCCGACAATTGTCACTTTTCCCTCCTAAGAAAGTAACATGTTAAGATTCCACCTACCAGCCTGGGTG
ACAGTGAGACTCCCGTCTCNNNNNNNNNNNNNNNNNNNTTCCACCCACTTTTAAGCTAAAGTATATGTAGGCA
TTAAAGATTTATTTAATAGAAATAAAGGGCCCTCTTACGGCCCTTGTGGTCATAGGAAATATTTTTTTCACAAG
TGGTACCCAAGTGATTT

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FIGURE 1030

RHFAGACDRVGVEWSGCGCRLFFLPHPVSGGLIRPSALEPRLVSYLVLGASST

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FIGURE 1031

GAACACAAACATGCAGTCTGTAGCAGATGGTAATAGGCTGAYATATTACACTTGTTGATGTAAATCTGATAGGTT
TCTTTCTCTCCAAGGACAGCTTTTTAAATATTTAACAGTATCAATAATTTTTCAGTTTCTGTGAGAATTTTATAA
TTTATAATTTGCAGACTTAATGTATAATCTATTTTGTCTTAACAATTACAAATATATTTTTTATTTTCAGATTCTA
TATATTCCTACCAGATGGAGATAATTACAGCTTTAAAAATTTTATTTTTTTCATTTTATTTTCACACATTGACATT
AAATTTTTATGGACACATAATAACTGTACATATATATGGGGTAGAATGTGATGTTTTAATACATGTACTCAATGT
GTAATGATCAAATCAGGGTAATTTGCATAATGATTTTCTGTAGGGAGAAAATTCAAATCTACTCTTCTGGCTA
TTTTCAAATATATAATATGTTATTGTTAACTATACTCATCCTACTATGCAATAGGACACCAGAACTTATTCCTGG
GTTCTACATCCGTTAAGGCAACCAAGGATTGGAAATATTGAAAAAAAATTGCGTCTGTACTGAACATGTACAG
ACTTTTTTCTTGTCCTTATTCTTACACAATATAGTACAATAACTATTTGCGATGACATTTACATCGGATATTATG
AGTGATCTAGAGTTGATATGAAGTATATGGGAGGATGTGCAAAGGTGATGTGCAAATACTATGTCATTTTATATC
AGGGACTTGAGTATCCTTTGTTAYCCTCAGGAGATCCTGAAACYAGTCCCCCATGGATACTGAGGGCTGACTGTA
TAGTCCTATCCTCACGGAACTTTTCAATTAATGRGGGAAGACTGACTATAAACAAAAATATATGTAATAGGTGGTG
GTAAGTACCGTGGAGAAGTAACAAATGGGGCAAAGTGAGTTATACAGCTCCATYCTTAGAAACCTTGAGTACTT
TTCTTAGTTTATACTCGTGGTGGTTTCCTTTTGTCTCCTTTATTACATGGGACTCTGACATGTGCCCATAGCTAG
GGTGGCAGTAGGATCTACCCGAAAAGCGTCCTGCTGATACAGGACCAAAGCATCCTGTTGTTCTCGAGCCTATAA
AAAGAGCTAATGGTCTTGCTTCTCTTAACCTGTGGCCTCCTACACTGTGTTTTGGATGATTGGTGATGTCTTGGAT
ATTCTGTTTTCTTTGGAACCTTTGAATATACAACACTTTACTAGGGAATTAGCAATGGAAGCAGAGCAAAGATGTAC
AGAGGAAACAATGCRTAACCTCTGATGGAATTGAAGTCATGAGGCAGCAGAGAGCTTAAATTASAGCTTTAAAAAT
TTTTATTTTTTTAGAGGGAATTTAMTTGGGAGTAACAGCAGTAATAGTTAACGGAGCCAGAATGCTTGAGTCATAT
AATTGCAAAGCAGAGTTGGGAGCAACAGATGCTAAAGAGTAGTTGCTGTAGTTCCCTCTTTGGGTGCTAGGAGCAG
TTGTCATRTTMCATATAYAGCTACTGCATGAAGAAGAGTTCTTAGTGAGCCCTGGGTGAACAGCTCTTCTTAGTAT
TCTGTGTGACCCCATTYGACCTTTTAACAAATCCCTAAGTAAATAAATAGCCCCTMAGGWAACTAAGTTTTTCT
CTGCTGTTTTTTTTGCTTGAGAGAGCTATAACTGTAATAGACTTATATTTCTGAACATTTTAGTGCTTGCCAATAT
TTGGTAATATTTATGTTTCCCTATATTTGTAATGAACATTCTTCTTCMGGTACATTTTGTGTTAAATTATTGTTTS
ATGSATAAAAGTTCACCTTTTATTGTATAAAATTGACTCAGATTAATTTATACACATTGACAATGGGTAAATAGA
GTTTTTCAGATTATTAAAAGCTGAAGGATGCCCATGTAAGCAAAAAAAAAAAAAAAAAAACTCGA

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FIGURE 1032

IYSSGYFQIYNMLLLTILILLCNRTPELIPGFYIR

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FIGURE 1033

AAAAAAAAAAAAAAAAAGTAGACGCTCGGGCACCAGCCGCGGCAAGGATGGAGCTGGGTTGCTGGACGCAGTTGGG
GCTCACTTTTCTTCAGCTCCTTCTCATCTCGTCCTTGCCAAGAGAGTACACAGTCATTAATGAAGCCTGCCCTGG
AGCAGAGTGGAAATATCATGTGTCGGGAGTGCTGTGAATATGATCAGATTGAGTGCCTGCTGCCCCGGAAAGAGGGA
AGTCGTGGGTTATACCATCCCTTGCTGCAGGAATGAGGAGAATGAGTGTGACTCCTGCCTGATCCACCCAGGTTG
TACCATCTTTGAAAAGCTGCAAGAGCTGCCGAAATGGCTCATGGGGGGGTACCTTGGATGACTTCTATGTGAAGGG
GTTCTACTGTGCAGAGTGCCGAGCAGGCTGGTACGGAGGAGACTGCATGCGATGTGGCCAGGTTCTGCGAGCCCC
AAAGGGTCAGATTTTGTGGGAAAGCTATCCCTAAATGCTCACTGTGAATGGACCATTTCATGCTAAACCTGGGTT
TGTCATCCAATAAGATTTGTTCATGTTGAGCCTGGAGTTTGACTACATGTGCCAGTATGACTATGTTGAGGTTGCG
TGATGGAGACAACCGCGATGGCCAGATCATCAAGCGTGTCTGTGGCAACGAGCGGCCAGCTCCTATCCAGAGCAT
AGGATCCTCACTCCACGTCCTCTTCCACTCCGATGGCTCCAAGAATTTTGACGGTTTCCATGCCATTTATGAGGA
GATCACAGCATGCTCCTCATCCCTTGTTTCCATGACGGCACGTGCGTCCTTGACAAGGCTGGACCTTACAAGTG
TGCCTGCTTGGCAGGCTATACTGGGCAGCGCTGTGAAAATCTTCTGGAGGCTGGGAAGTCCAAGATCAAGGCGTC
AGAAGATTCAATTGTCTGTCTTGAAGAAAGAACTGCTCAGACCCTGGGGGCCAGTCAATGGGTACCAGAAAAT
AACAGGGGGCCCTGGGCTTATCAACGGACGCCATGCTAAAATTGGCACCGTGGTGTCTTTCTTTGTAACTC
CTATGTTCTTAGTGGCAATGAGAAAAGAACTTGCCAGCAGAATGGAGAGTGGTCAGGGAAACAGCCCATCTGCAT
AAAAGCCTGCCGAGAACCAAGATTTAGACCTGGTGAGAAGGAGAGTTCTTCCGATGCAGGTTCACTCAAGGGA
GACACCATTACACAGCTATACTCAGCGGCCTTCAAGCAGAACTGCAGAGTGGCCCTACCAAGAAGCCAGC
CCTTCCCTTTGGAGATCTGCCCATGGGATACCAACATCTGCATACCCAGCTCCAGTATGAGTGCATCTCACCCTT
CTACCGCCGCTGGGCAGCAGCAGGAGGACATGTCTGAGGACTGGGAAGTGGAGTGGGCGGGCACCATCCTGCAT
CCCTATCTGCGGGAAAATTGAGAACATCACTGCTCCAAAGACCCAAGGGTTGCGCTGGCCGTGGCAGGCAGCCAT
CTACAGGAGGACCAGCGGGGTGCATGACGGCAGCCTACACAAGGGAGCGTGGTTCTAGTCTGCAGCGGTGCCCT
GGTGAATGAGCGCACTGTGGTGGTGGCTGCCACTGTGTTACTGACCTGGGGAAGGTACCATGATCAAGACAGC
AGACCTGAAAGTTGTTTTGGGGAAATTCTACCGGGATGATGACCGGGATGAGAAGACCATCCAGAGCCTACAGAT
TTCTGCTATCATTCTGCATCCCAACTATGACCCCATCCTGCTTGATGCTGACATCGCCATCCTGAAGCTCCTAGA
CAAGGCCCGTATCAGCACCCGAGTCCAGCCCATCTGCCTCGCTGCCAGTGGGATCTCAGCACTTCTTCCAGGA
GTCCACATCACTGTGGCTGGCTGGAATGTCCTGGCAGACGTGAGGAGCCCTGGCTTCAAGAACGACACACTGCG
CTCTGGGGTGGTCAGTGTGGTGGACTCGCTGCTGTGTGAGGAGCAGCATGAGGACCATGGCATCCCAAGTGAGTGT
CACTGATAACATGTTCTGTGCCAGCTGGGAACCCACTGCCCCTTCTGATATCTGCACTGCAGAGACAGGAGGCAT
CGCGGCTGTGTCTTCCCGGGACGAGCATCTCCTGAGCCACGCTGGCATCTGATGGGACTGGTCAGCTGGAGCTA
TGATAAAACATGCAGCCACAGGCTCTCCACTGCCTTACCAAGGTGCTGCCTTTTAAAGACTGGATTGAAAGAAA
TATGAAATGAACCATGCTCATGCACTCCTTGAGAAGTGTCTGTATATCCGTCTGTACGTGTGTCATTGCGTGA
AGCAGTGTGGGCCTGAAGTGTGATTTGGCCTGTGAACTTGGCTGTGCCAGGGCTTCTGACTTCAGGGACAAAAC
CAGTGAAGGGTGAGTAGACCTCCATTGCTGGTAGGCTGATGCCGCGTCCACTACTAGGACAGCCAATTGGAAGAT
GCCAGGGCTTGCAAGAAGTAAGTTTCTTCAAAGAAGACCATATACAAAACCTCTCCACTCCACTGACCTGGTGGT
CTTCCCCAATTTTCAATTATACGAATGCCATCAGCTGACCAGGGAAGATCTGGGCTTCATGAGGCCCTTTTGGAG
GCTCTCAAGTTCTAGAGAGCTGCCTGTGGGACAGCCAGGGCAGCAGAGCTGGGATGTGGTGCATGCCCTTGTGT
ACATGGCCACAGTACAGTCTGGTCCCTTTTCTTCCCCATCTCTTGTACACATTTTAATAAAATAAGGGTTGGCTT
CTGAATACT

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FIGURE 1034

MELGCWTQLGLTFLQLLLISSLPREYTVINEACPGAENIMCRECCEYDQIECVCPGKREVVGYTIPCCRNEENE
CDSCLIHPGCTIFENCKSCRNGSWGGTLDDFYVKGIFYCAECRAGWYGGDCMRCGQVLRAPKGQILLESYPLNAHC
EWTIHAKPGFVIQLRFVMLSLEFDYMCQYDYVEVRDGDNRDGOIIRKRVCGNERPAPIQSIGSSLHVLFHSDGSKN
FDGFHAIYEEITACSSSPCFHDGTCVLDKAGPYKCACLAGYTGQRCENLLEAGKSKIKASEDSLSVLEERNCSDP
GGPVNGYQKITGGPGLINGRHAKIGTVVSFFCNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRR
VLPMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYRRLGSSRRTCLRTG
KWSGRAPSCIPICGKIENITAPKTQGLRWPWQAAIYRRTSGVHDGSLHKGAWFLVCSGALVNERTVVVAHCVTD
LGKVTMIKTADLKVVLGKFYRDDDRDEKTIQSLQISAILHPNYDPILLDADIAILKLLDKARISTRVQPICLAA
SRDLSTSFQESHITVAGWNVLADVRSFGFKNDTLRSGVVSVDSSLCEEQHEDHGIPVSVTDNMFASWEPTAPS
DICTAETGGIAAVSFPGRASPEPRWHLMLVSWSYDKTCSHRLSTAFTKVLPFKDWIERNMK

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FIGURE 1035

GGAGAAGCAGCTTGAGGCATCATTAGATGCACTGCTGAGTCAAGTGGCTGATCTGAAGAACTCTCTGGGGAGTTT
CATTTGCAAGTTGGAGAACGAGTATGGCCGGCTGACCTGGCCATCTGTCCTGGACAGCTTTGCCTTGCTTTCTGG
ACAGCTGAACACTCTGAACAAGGTCTTGAAGCATGAAAAACACCGCTGTTCCGTAACCAGGTCATCATTCTCT
GGTGTGTCTCCAGACCGAGATGAAGATCTC**ATG**CGGCAGACTGAAGGACGGGTGCCTGTTTTAGCCATGAGGT
AGTCCCTGACCATCTGAGAACCAAGCCTGACCCCTGAAGTGAAGAACAGGAGAAGCAACTGACGACAGATGCTGC
CCGCATTGGTGCAGATGCAGCCCAGAAGCAGATCCAGAGCTTGAATAAAATGTGTTCAAACCTTCTGGAGAAAAAT
CAGCAAAGAGGAGCGAGAATCAGAGAGTGGAGGTCTCCGGCCGAACAAGCAGACCTTTAACCCCTACAGACACTAA
TGCTTTGGTGGCAGCTGTTGCCTTTGGGAAAGGACTATCTAATTGGAGACCTTCAGGCAGCAGTGGTCTGGCCA
GGCAGGCCAGCCAGGAGCTGGGACGATCCTTGAGGAACCTCAGGATTACAGCAGGTGCAGATGGCAGGAGCTCC
AAGCCAGCAGCAGCCAATGCTCAGTGGGGTACAAATGGCTCAGGCAGGTCAACCAGGGAAAAATGCCAAGTGAAT
AAAAACCAACATCAAGTCGGCTTCCATGCATCCCTACCAGCGGCCCTCCTGCCTGGGTTTCATTCTGGCTATCCC
TCTAAGGCGCAAGGTGAAGAAGCTTCTGGGCCAGGAAGGAAAAAAATGCCACCTGCAGCTCTGG**TGA**AGCTT
GGGCCTGCTCTCCTTTCCATCCTCTAAGGAGCCAACCTTGGCTTTTACCTGTCAAATAGTCATAAAGTCCCCTATC
CTTTACCCACCTTATACACACGAGGCTTTCTCAGGAAGTGGCTCTGCCAGGCAGGACTATGTGGGAAAGGGTTT
TTCCTTAGCACACGAAAAAGCCCCCTCCCCTGGATTTCATGTTTCTTATTTTGGAGGGAGAAGGGAATTGCACTTC
ACACTGCCATCAGGGTTTAGTTGACCTCATAATGGTGCCCACTTTCTCGACTTTGGCCAGGATTCCTTCAAAGA
AAACGACTTTCCTTCATTTCCCTAAGCCTGTGGCCCAAATGGTGGACCAGAATGATGGTGGGAGGGGGCAACCCC
CAGTAGCTTTGCCTGCTTTTATAAAGTTGAACAAATTGAATTTAGACATTCAGGCTAACCTGCCTTTCTTAGTAC
TCCTTTGTTGGCATGGGCAGGGGTGAGTCAGCAGAAGTGGACCAAAGGATTCTCTGAATAAAGTTATTTAAAT
TGAAAAAAAAAAAAAAAAA

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FIGURE 1036

MRQTEGRVPVFSHEVVPDHLRTKPDPEVEEQEKQLTTDAARIGADAAQKQIQSLNKMCSNLLEKISKEERESESG
GLRPNKQTFNPTDTNALVAAVAFGKGLSNWRPSGSSGPGQAGQPGAGTILAGTSGLQQVQMAGAPSQQQPMLSGV
QMAQAGQPGKMPSGIKTNIKSASMHPYQRPSCLGFI LAIPLRRKVKKLLGQEGKKN AHLQLW

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FIGURE 1037

GGGAAGATGAGAAGGGGGGCTCCCTTCTCTAGTAGCAAAGGGTGAGGAGACTGAGTCTCCTTTCTACTGCCAGGT
CACTGGGGACTATTTGTCATGGGAGTGGAGGTGATAAGGAAGGTAGGTAGGAGTGAACAGCCTGGGGGGCTGCTG
TGAGATCCTGAGGTGGGGCGCTGCCCCAACTCCTGCCACTGTTCCCTCCTCTGTACTTTCTGTGCTCCCCCTC
CCACCAGGAGCTAGGGAGTGTGGCACTGAGCCGGCTCAGGCAGAGACGCGGCACCATGGCTAGCAAGAAAGTCTG
CATTGTAGGCTCCGGGAAC TGGGGCTCAGCCATCGCCAAGATCGTGGGTGGCAATGCAGCCCAGCTGGCACAGTT
TGACCCACGGGTGACCATGTGGGTATTTGAGGAAGACATTGGAGGCAAAAAGCTGACTGAGATCATCAACACGCA
GCATGAGAATGTCAAATACCTGCCAGGGCACAAGTTGCCCCAAATGTGGTGGCTGTCCAGATGTGGTCCAGGC
TGCAGAGGATGCTGACATCCTGATCTTTGTGGTGCCCCATCAGTTTCATCGGCAAGATCTGTGACCAGCTCAAGGG
CCATCTGAAGGCAAAACGCCACTGGCATATCTCTTATTAAGGGGGTAGACGAGGGCCCCAATGGGCTGAAGCTCAT
CTCGGAAGTGATTGGGGAGCGCCTCGGCATCCCCATGAGTGTGCTGATGGGGGCCAACATTGCCAGCGAGGTGGC
TGATGAGAAGTTCTGTGAGACAACCATTGGCTGCAAGGACCCGGCCAGGGACAACCTCTGAAAGAGCTGATGCA
GACACCAAACCTCCGTATCACAGTGGTGCAAGAGGTGGACACAGTAGAGATCTGTGGAGCCTTAAAGAATGTAGT
GGCCGTGGGGGGCTGGCTTCTGTGATGGCCTGGGCTTTGGCGACAACACCAAGGCGGCAGTGATCCGGCTGGGACT
CATGGAGATGATAGCCTTCGCCAAGCTCTTCTGCAGTGGCCCTGTGTCTCTGCCACCTTCTTGGAGAGCTGTGG
TGTTGCTGACCTGATCACTACCTGCTATGGAGGGCGGAACCGGAAAGTGGCTGAGGCCTTTGCGCGTACAGGAAA
GTCCATTGAGCAGCTGGAGAAAGAGTTGCTGAATGGGCAGAACTGCAGGGGGCCGAGACAGCCCGGGAGCTATA
CAGCATCCTCCAGCACAAGGGCCTGGTAGACAAGTTTCCCTTGTTTCATGGCTGTGTACAAGGTGTGCTACGAGGG
CCAGCCAGTGGGTGAATTCATTCACTGCCTGCAGAATCATCCAGAACATATGTGAGTGGGGCCAGGGCCCAGGCC
AGGCCGCTTTTTTACCCAGTGGAGACCAGCAGAAGCCTGGGGTACCTAGTCAACCAGGATCTCCAGGACTCCCAG
GGAGCAGAGTCTTCTCATCTTTTCACTGGAGGACAGGAGGCTATGGGGCCAGCTACGCACCTGGAGATCCTGAA
CTGTCAAGCCACTGGCAGCCTCATGCCACCACATTGCCAGAAATGCAATTGCCCTGTCCCTCTCCAGATGTGGG
GCTTTCTCCATATCCTCTGGGAGGGGTGGAATCAAGCCCCAGTGTGCTGCCTGCTTGGTGGCGGGGTGATGTATGT
GGAGAAGGGTTGGGGGAGAGGCCGGTAGGGCAGGGGCTGCTAGTGGCTGTCTCACATACACCAGTAATCCTGTTA
AAGGGCTGAAGAAGTATCTTAGCCACAGGAGCGATGAGGCAAGGATTGTGAGGGAGGGGTCTGGGCTTCTGAGCT
GATGCAGGCCCCAAGGACCCCTTTGCTGACCTCTGCCAGGACCCACACAGCTTCGATGGATCTCAGTGTTTGTTA
ACAAAATACAAAGATCTCAAACAACCCCTTTTAGCTTCTCCTAGCAACATCTGTGTCCCTCAGAAACCTCTGGTT
CTCCCCCTTCCCCCTCCCCCAGGCTGCCCTGGCACCCAAATTGCTGCCATGCTGGCATCTGTAGCTCGGTGGCTT
GACATTCTCCCCAGGGACTTCCCGGTTCCTAGTTCTTTGCCAGCTCCTCCCCACTCTGTGCGACCTTTCCAAGCC
TTCCCTCACCTCCCCGCCAGCACCTCTTTGGGGAGCAGGAACCTTAATCTGCTGACAGAGCTACACCTTTCATA
ACAGGCTCAGATCACTCAGCTCCCTGTGACCTTTGTATTACCCAGGCTTCCTTCTCAGTAGCTCTAGCTGGGGG
AGGTGTGAGCTGGGCCCCCTCCTGTGCTATCTCCCCAGAGGACATCCCTGACTCCACCCCTTCTTCTCCTCCCAAAC
TCTGCACCTCTTCTCAGCTGCTCCAGACCGGCCAGGGTAACCAGCTAACCATGCCTGGCATCTGGAAGCCAGCA
GGCCAGAGGGTGGCCCAAAGGCTGATGAACGGTAGGGAAGGGTGAGCAGATTCCCTATGTTGGTGGGCACCAATAT
TCCAAGGGCAGCTCTCTTTGCTGAATGAGGGCCTTCTCGTGAGGTACTGACAACACCAGCAACTCGAGAGCTGGG
AAACTCAAGGAGGAGGAAGAAAATCAAACCACCCCTACTCCCTGGGGTGAGGAAAGAACAGGAGGGGAGGAGGAG
GAGTGTGCTCTGCACTTGCTTGGCTCCAGGATGGGGTGGCAGCAGAGGAATGTACAGGTCAGCAGCTAGGCCT
CCAGCTATAAATAGTCCGGAGGGGCCGAGAGGCTCCCGCCGTCAGCAGGGCTGTGAGCTTCTGTGTGGCAGC
ACCTGGCACACTGGCTCTGGCCAGCATTATGCTAAAACCTGTTACTCTCCAATGAACCAGGGAGGCGGGCTCCT
CTCTGCGCTATCCCTTGAGAATTCTGTCTTACCAGTGAAGGGTGGGGCTGCCAGATCAGGCAGCAGGAGTGAG
GGGCACAGTCACCCCAGGCCTTGTGAGCCAGGTCTGGGTACTGAGTGTCCAGAGCTGCCTCCCCAGGAGGTTA
AGGTGGGGGGCAAAGGGGAAGCTTCAAGCACTTTGCCTACTTTTGTTCCTCCAGTGCAGTGTGACTCAGGCCT
TCCCATCAGGCCTATTTGTCTACCCAATAAAGCGTGTTTTTTCCAGAAACAAGAAGAGTTGGGAGAGGGAGCTTC
AGTGATGTGGCAGTGCCTGTGCTGGCGGTATCATTGCACGTATGTTTTCCCTCTTACCGTAGGAAAAACGAAA
AAAGAAATCCCTCCTCCATAATCGCAGCTACTCCAGGGGTGAGCGCGGTGCCACTCAGTCCCCATCCCTCTCT
CTCCCCCTCCCGCCAGCGCCCCCTCCCGCCCTCGCCGCAAGCTGGCCCCGGCCTTGCCGGCCCTTCTTAGGGGCTT
TATCATGCCTCCTGCAAGAATAGAGATCACACACGGGACGGAACGTTAGACTCTCATCCCTTGTGCCATTCCCT
TGGTCACGGGCAAGCTGCCGCATCCTTAGCGGTCCAGGCATCGCGGTGCCCTCGGGCCCCCTACCTGGACTAGG
CCCACAGCCGGGCTCTAGGGGGCGCGCATCCACCTCCAGAAGGCCGGCTGCGAAAATCTACCCA

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FIGURE 1038

MASKKVCIVGSGNWGSAIAKIVGGNAAQLAQFDPRVTMWVFEE DIGGKKLTEIINTQHENVKYLPGHKLPPNVVA
VPDVVQAAEDADILIFVVPHQFIGKICDQLKGHLKANATGISLIKGVDEGPNGLKLISEVIGERLGIPMSVLMGA
NIASEVADEKFCETTIGCKDPAQGQLLKELMQTPNFRITVVQEVDTVEICGALKNVVAVGAGFCDGLGFGDNTKA
AVIRLGLMEMIAFAKLFCSGPVSSATFLESCGVADLITTCYGGRRNRKVAEAFARTGKSIEQLEKELLNGQKLQGP
ETARELYSILQHKGLVDKFPLFMAVYKVCYEGQPVGEFIHCLQNHPEHM

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FIGURE 1039A

ACCGGGAGCGCGCTCTGATCCGAGGAGACCCCGCGCTCCCGCAGCCATGGGCACCGGGGGCCGGCGGGGGGGCG
GCGGCCGCGCCGCTGCTGGTGGCGGTGGCCGCGCTGCTACTGGGCGCCGCGGGCCACCTGTACCCCGGAGAGGTG
TGTCGGCATGGATATCCGGAACAACCTCACTAGGTTGCATGAGCTGGAGAATTGCTCTGTCTCATCGAAGGACAC
TTGCAGATACTCTTGATGTTCAAACGAGGCCCCGAAGATTTCCGAGACCTCAGTTTCCCCAACTCATCATGATC
ACTGATTACTTGCTGCTCTTCCGGGTCTATGGGCTCGAGAGCCTGAAGGACCTGTTCCCCAACCTCACGGTCATC
CGGGGATCACGACTGTTCTTTAACTACGCGCTGGTCATCTTCGAGATGGTTTACCTCAAGGAACCTCGGCCTCTAC
AACCTGATGAACATCACCCGGGGTTCTGTCCGCATCGAGAAGAACAATGAGCTCTGTTACTTGGCCACTATCGAC
TGGTCCCGTATCCTGGATTCCGTGGAGGATAATTACATCGTGTGTAACAAAGATGACAACGAGGAGTGTGGAGAC
ATCTGTCCGGGTACCGCGAAGGGCAAGACCAACTGCCCCGCCACCGTCATCAACGGGCAGTTTGTGCAACGATGT
TGGACTCATAGTCACTGCCAGAAAGTTTGCCCGACCATCTGTAAGTCACACGGCTGCACCGCCGAAGGCCTCTGT
TGCCACAGCGAGTGCCTGGGCAACTGTTCTCAGCCCCGACGACCCCAAGTGCCTGGCTGCCCAACTTCTAC
CTGGACGGCAGGTGTGTGGAGACCTGCCCCCCCCGTACTACCCTTCCAGGACTGGCGCTGTGTGAACCTTCAGC
TTCTGCCAGGACCTGCACCACAAATGCAAGAACTCGCGGAGGCAGGGCTGCCACCAGTACGTCATTACACAACAC
AAGTGCATCCCTGAGTGTCCCTCCGGGTACACGATGAATTCCAGCAACTTGCTGTGACCCCCATGCCTGGGTCCC
TGTCCTCAAGGTGTGCCACCTCCTAGAAGGCGAGAAGACCATCGACTCGGTGACGTCTGCCAGGAGCTCCGAGGA
TGCACCGTCATCAACGGGAGTCTGATCATCAACATTTCGAGGAGGCAACAATCTGGCAGCTGAGCTAGAAGCCAAC
CTCGGCCTCATTGAAGAAATTTAGGGTATCTAAAATCCGCCGATCCTACGCTCTGGTGTCACTTTCCTTCTTC
CGGAAGTTACGTCTGATTTCGAGGAGAGACCTTGGAATTTGGGAATACTCCTTCTATGCCTTGGACAACCGAAC
CTAAGGCAGCTCTGGGACTGGAGCAAACACAACCTCACCATCACTCAGGGGAACTCTTCTTCCACTATAACCCC
AACTCTGCTTGTCTAGAAATCCACAAGATGGAAGAAGTTTCAGGAACCAAGGGGCGCCAGGAGAGAAACGACATT
GCCCTGAAGACCAATGGGGACCAGGCATCCTGTGAAAATGAGTTACTTAAATTTCTTACATTCCGACATCTTTT
GACAAGATCTTGCTGAGATGGGAGCCGTACTGGCCCCCGACTTCCGAGACCTCTTGGGGTTCATGCTGTTCTAC
AAAGAGGCCCCCTTATCAGAATGTGACGGAGTTCGACGGGCAGGATGCATGTGGTTCCAACAGTTGGACGGTGGTA
GACATTGACCCACCCCTGAGGTCCAACGACCCCAATCACAGAACCACCCAGGGTGGCTGATGCGGGGTCTCAAG
CCCTGGACCCAGTATGCCATCTTTGTGAAGACCCTGGTCACCTTTTCGGATGAACGCCGGACCTATGGGGCCAAG
AGTGACATCATTTATGTCCAGACAGATGCCACCAACCCCTCTGTGCCCTGGATCCAATCTCAGTGTCTAACTCA
TCATCCCAGATTATTCTGAAGTGGAACCAACCCCTCCGACCCCAATGGCAACATCACCCACTACCTGGTTTTCTGG
GAGAGGCAGGCGGAAGACAGTGAGCTGTTTCGAGCTGGATTATTGCCTCAAAGGGCTGAAGCTGCCCTCGAGGACC
TGGTCTCCACCATTCGAGTCTGAAGATTCTCAGAAGCACAACCAGAGTGAGTATGAGGATTCCGGCCGGCGAATGC
TGCTCCTGTCCAAAGACAGACTCTCAGATCCTGAAGGAGCTGGAGGAGTCCCTCGTTTAGGAAGACGTTTGAGGAT
TACCTGCACAACGTGGTTTTCTGTCGCCAGGCCATCTCGAAACGCAGGTCCCTTGGCGATGTTGGGAATGTGACG
GTGGCCGTGCCACGGTGGCAGCTTTCCTCAACACTTCTTCGACCAGCGTGCCACAGAGTCCGGAGGAGCACAGG
CCTTTTGAGAAGGTGGTGAACAAGGAGTCGCTGGTCATCTCCGGCTTTCGACACTTCACGGGCTATCGCATCGAG
CTGCAGGCTTGCAACCAGGACACCCCTGAGGAACGGTGCAGTGTGGCAGCCTACGTCAGTGCGAGGACCATGCCT
GAAGCCAAGGCTGATGACATTGTTGGCCCTGTGACGCATGAAATCTTTGAGAACAACGTCGTCCACTTGATGTGG
CAGGAGCCGAAGGAGCCCAATGGTCTGATCGTGTGTATGAAGTGAGTTATCGGCGATATGGTGATGAGGAGCTG
CATCTCTGCGTCTCCCGCAAGCACTTCGCTCTGGAACGGGGCTGCAGGCTGCGTGGGCTGTACCGGGGAACCTAC
AGCGTGCGAATCCGGGCCACCTCCCTTGCGGGCAACGGCTCTTGACGGAACCCACCTATTTCTACGTGACAGAC
TATTTAGACGTCCCGTCAAATATTGCAAAAATTATCATCGCCCCCTCATCTTTGTCTTTCTCTTCACTGTTGTG
ATTGGAAGTATTTATCTATTCTTGAGAAAGAGGCAGCCAGATGGGCCGCTGGGACCGCTTTACGCTTCTTCAAAC
CCTGAGTATCTCAGTGCCAGTGATGTGTTTCCATGCTCTGTGTACGTGCCGACGAGTGGGAGGTGTCTCGAGAG
AAGATCACCCCTCCTTCGAGAGCTGGGGCAGGGCTCCTTCGGCATGGTGTATGAGGGCAATGCCAGGGACATCATC
AAGGGTGAGGCAGAGACCCGCTGGCGGTGAAGACGGTCAACGAGTCAGCCAGTCTCCGAGAGCGGATTGAGTTC
CTCAATGAGGCCTCGGTTCATGAAGGGCTTACCTGCCATCACGTGGTGCCTCCTGGGAGTGGTGTCCAAGGGC
CAGCCACGCTGGTGGTGTATGGAGCTGATGGCTCACGGAGACCTGAAGAGCTACCTCCGTTCTCTGCGGCCAGAG
GCTGAGAATAATCCTGGCCGCCCTCCCCCTACCCTTCAAGAGATGATTAGATGGCGGCAGAGATTGCTGACGGG
ATGGCCTACCTGAACGCCAAGAAGTTTGTGCATCGGGACCTGGCAGCGAGAACTGCATGGTTCGCCCATGATTTT
ACTGTCAAATTTGGAGACTTTGGAATGACCAGAGACATCTATGAAACGGAATTACTACCGGAAAGGGGGCAAGGGT

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FIGURE 1039B

CTGCTCCCTGTACGGTGGATGGCACCGGAGTCCCTGAAGGATGGGGTCTTCACCACTTCTTCTGACATGTGGTCC
TTTGGCGTGGTCCCTTTGGGAAATCACCAGCTTGGCAGAACAGCCTTACCAAGGCCTGTCTAATGAACAGGTGTTG
AAATTTGTTCATGGATGGAGGGTATCTGGATCAACCCGACAACCTGTCCAGAGAGAGTCACTGACCTCATGCGCATG
TGCTGGCAATTCAACCCCAACATGAGGCCAACCTTCCTGGAGATTGTCAACCTGCTCAAGGACGACCTGCACCCC
AGCTTTCAGAGGTGTCGTTCTTCCACAGCGAGGAGAACAAGGCTCCCGAGAGTGAGGAGCTGGAGATGGAGTTT
GAGGACATGGAGAATGTGCCCTGGACCGTTTCTCGCACTGTCTAGAGGGAGGAGGCGGGGGGCCGGGATGGAGGG
TCCTCGCTGGGTTTCAAGCGGAGCTACGAGGAACACATCCCTTACACACACATGAACGGAGGCAAGAAAAACGGG
CGGATTCTGACCTTGCCTCGGTCCAATCCTTCTTAAACAGTGCCTACCGTGGCGGGGGCGGGCAGGGGTTCCCAT
TTCGCTTTCCTCTGGTTTGAAAGCCTCTGGAAAACTCAGGATTCTCACGACTCTACCATGTCCAATGGAGTTTCTAG
AGATCGTTCCCTATACATTTCTGTTTCATCTTAAGGTGGACTCGTTTGGTTTACCAATTTAACTAGTCCTGCAGAGGA
TTTAACTGTGAACCTGGAGGGCAAGGGGTTTCCACAGTTGCTGCTCCTTTGGGGCAACGACGTTTCAAACCAGG
ATTTTGTGTTTTTTTCGTTCCCCCACC CGCCCCCAGCAGATGGAAAGAAAGCACCTGTTTTTACAAATTCTTTTT
TTTTTTTTTTTTTTTTTGCTGGTGTCTGAGCTTCAGTATAAAAGACAAAACCTCCTGTTTGTGGAACAAAAGTTCTG
AAAGAAAAAACAAAACAAAACACCCAGCCCTGTTCCAGGAGAATTTCAAGTTTACAGGTTGAGCTTCAAGATG
GTTTTTTTGGTTTTTTTTTTTTTCTCTCATCCAGGCTGAAGGATTTTTTTTTTCTTTACAAAATGAGTTCCTCAA
TTGACCAATAGCTGCTGCTTTTCATATTTTGATAAGGGTCTGTGGTCCCGCGTGTGCTCACGTGTGTATGCACG
TGTGTGTGTCCATTAGACACGGCTGACGTGTGTGCAAAGTATCCATGCGGAGTTGATGCTTTGGGAATTGGCTCA
TGAAGGTCTTCTCAAGGGTGCAGCTCATCCCCCTCTCTCCTTCTTCTTATTGACTGGGAGACTGTGCTCTCG
ACAGATTCTTCTTGTGTCAGAAGTCTAGCCTCAGGTTTCTACCTCCCTTCACATTGGTGGCCAAGGGAGGAGCA
TTTCATTTGGAGTGATTATGAATCTTTTCAAGACCAACCAAGCTAGGACATTAAAAAAAAAAAAAGAAAAAGA
AAGAAAAAACAAAATGGAAAAAGGAAAAAAAAAAAAAGAACTGAGATGACAGAGTTTGTGAGAATATATTTGTACCAT
ATTTA

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FIGURE 1040

MGTGGRRGAAAAPLLVAVAALLLGAAGHLYPGEVCPGMDIRNNLTRLHELENC SVIEGHLQILLMFKTRPEDFRD
LSFPKLIMITDYLLLFRVYGLESKDLFPNLT VIRGSRLFFNYALVIFEMVHLKELGLYNLMNITRGSVRIEKN
ELCYLATIDWSRILDSVEDNYIVLNKDDNEECGDICPGTAKGKTNCPATVINGQFVERCWTHSHCQKVCPTICKS
HGCTAEGLCCHSECLGNCSQPDDPTKCVACRNFYLDGRCVETCPPPYHFDWRCVNF SFCQDLHHKCKNSRRQG
CHQYVIHNNKCIPECPSGYTMNSSNLLCTPCLGPCPKVCHLLEGEKTIDSVTSAQELRGCTVINGSLIINIRGGN
NLAAELEANLGLIEEISGYLKIRRSYALVLSFFRKLRLIRGETLEIGNYSFYALDNQNLRLQLDWWSKHNLITQ
GKLFFHYNPKLCLSEIHKMEEVSGTKGRQERNDIALKTNGDQASCENELLKFSYIRTSFDKILLRWEPLYWPPDFR
DLLGFMLFYKEAPYQNVTEFDGQDACGSNSWTVDIDPPLRSNDPKSQNHPGWLMRGLKPWTQYAI FVKTLVTFS
DERRTYGAKSDIIYVQTDATNPSVPLDPI SVSNSSSQIILKWKPPSDPNGNI THYLVFWERQAEDSELFELDYCL
KGLKLPSRTWSPPFESEDSQKHNOSEYEDSAGECCSCP KTD SQILKELEESSFRKTFEDYLHN VVFPVRPSRKRR
SLGDVGNVTVA VPTVA AAFPNTSSTSVPTSPEEHRPF EKVVNKESLVISGLRHFTGYRIELQACNQDTPEERCSVA
AYVSARTMPEAKADDIVGPVTHEIFENNVVHLMWQEPKEPNGLIVLYEVSYRRYGDEELHLCVSRKHFALE RGC
LRGLSPGNYSVRIRATSLAGNGSWTEPTYFYVTDYLDVPSNIAKIIIGPLIFVFLFSVVIGSIYLF LRKRQPDGP
LGPLYASSNPEYLSASDVFP CSVYVPDEWEVSREKITLLRELQGGSFGMVYEGNARDIIKGEAETRVAVKTVNES
ASLRERIEFLNEASVMKGF TCHHVVRLLGVVSKGQPTLVVMELMAHGD LKSYLRSLRPEAENNPGRPPPTLQEMI
QMAAEIADGMAYLN AKKFVHRDLAARNCMVAHDF TVKIGDFGMTRDIYETDYRKGGKGLLPVRWMAPE SLKDG
FTTSSDMWSFGVVLWEITSLAEQPYQGLSNEQVLKFVMDGGYLDQPDNCPERVTDLMRMCWQFNPNMRPTFLEIV
NLLKDDLHPSFPFVSFFHSEENKAPES EEELEMEFEDMENVPLDRSSH CQREEAGGRDGGSSLGFKRSYEEHIPYT
HMNGGKKNGRILTLPRSNPS

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FIGURE 1041

CTGCAGGGAGGCAGGTAGAAAAGGCTTTTGGGTTTTTCAGGTGGGGGGCAGTCTAGCCTGATCAGAAAGGAGGAAA
AGGCCAGGGCAGATGTCTGGGTGGAGTGAAGGGAAAAAGTGATCCCAGAAGAAGGATTAGCCCCTGAAAGTCCCT
GAAGTAGGAGAAGGGTAAAGGTGTGGTTGGTGAAGGAAAGCAGGTTTTCCCAGATTAGCAACCAGTCAGGGGGAG
GAAGGTGAGAGTGGGAGAGTCATAAGTAAATTATTCTGAATGTGTGTAGTTAATGGAATTGGGAAAAAGATGGG
GGAAATGGATGGAAGGTCTTGGACTCTGAGACAAGGGGTCTATAATCAGTCCATTTTCATTATTTCTAGCTTCCAC
CTTCACCAAGGCAGACAAGGAGGGGCCACCTCAGCTCCTCTGCTCCCCCTCCCTTTCCCACCTATTCATGTGTGC
AAGAGTGCCCTGTCCACAGAACACGGGGAACAACCATCTCAATGACAAGGACAGCAGGTGGCAAGGCTCAACAG
GACTCAGATGTCCCCCAGGGTTAACTCATGAAACCTCCATGAAGCCTGCTGCTCACCCTCCCTCAAGGCAAG
CCCTGCACCTGGGTCTGAGGATGAGGGTGGCAGTGAAAATTAGGCCAGTGACATCATTTTCAGCCAGCTAGTGCC
AAAAATATCAGGTGGTGTTCATCAATAAGCCGAGCCAACCGGTGATGAGGATGGTAGTGTGAGTCATGTGTGA
CAGGTGAGGAATGAAAACAGAGTGCCCAGAGCTTCTATTTCCCTTGAGGCAGGGCTCATTTCATCTTATAAAAGCC
AGCTGGCCATTGCCTTCACACCAACCCAAGGGACCACAGCCCATTCTGCTCCGTATACCAGGTAAGTCTCTG
ATTGCAACAACTGGCAATTCTAGTGTACTTTTTTCATTATTAGAAATTAGCTAAAGGCAAATATGTGTAAGCAGG
TTAATCCAGGGTTTCAATGGGAGATAGAGAATAGTGAATATCTTTATTTTAAAGTTAAATTACAGTCTGGATTTG
AAAGGACCTTAGAGATGGTTAGGGCTCCCACCTCAGTAGATAGTCATTGAACTGGGAGTCTGGAGAAGATTGTT
CAATGCCCATGGGAAGTTCATAGCAGAACTAGAACTCAGGCCAGAGCACTCTCAGTAACACTGCAATTTCCCCC
TGACAAGATATTTATAGAAATTTTAATTTATTAGATGGATCTCTACTGAGCATTTATTCCATTTAAGGCAGTATG
CTAGGCACTTTGGACAAATCAATGCCCTAACGTACTTACTTAACAAACATAAAACCTAGCAGGAAGGTAATACAT
ATATATAAATAAATGAAATGCAAAGTAGATAGTAATTGGCATGACGGAGATGGGCAGAGAAGGGCTGTGCACTTT
TGGGAGACTTGCTCAAGGAGACCTCTAGGGTGTCAAGTGATGTGAGCTATGATGGAGGGGTATTTGGACAAGCAG
AGATGGGAAGAAAAGCATTGGAAGGGACTGTGTAAGCACAGACCAGAAGCAAAACCATAGAGGCTTAGATGAAT
ATAAAGCCATCCTATAAGTCACAGGCTTTCTACATGGTACTAGGAGAGGAAAAGTGGTCTGATGCCATTTTCCAAA
AGACCTAATATGCGGACCTCATGTCCCTCAGAAGCCAGCTTTAGTAGGGCATTTTTCCAGAACAGATATAAGGTG
CCTTGGGTAGGAAGGGAGCCAAGAAGAGAACTCCAATAAAATGGAGCAGAAGAAAATTGCCTTTTAGCTCCTCCTC
TTCAAAGGGCCTGAAAATTATCCAAGCTTATTTTCATTTTTAAATGTAATGGGGGAGCTAAGGGAGATGAAAGGCT
TTCTCTTCTAAAGGGTCCGAAATAAAATCTGTTTGGCATTGAATTTGTATCCATCTTTCTTTAATTGAATCACT
GTGTCAGCTTTCTGTCTCTAGAAAAAACACATTTGAAGCATGAATTCTCAGCAGCAGAAGCAGCCTTGCACCCC
ACCCCTCAGCCTCAGCAGCAGCAGGTGAAACAACCTTGCCAGCCTCCACCCCAGGAACCATGCATCCCCAAAC
CAAGGAGCCCTGCCAACCAAGGTGCCTGAGCCCTGCCACCCCAAAGTGCCTGAGCCCTGCCAGCCCAAGATTCC
AGAGCCCTGCCAGCCCAAGGTGCCTGAGCCCTGCCCTTCAACGGTCACTCCAGCACCAGCCAGCAGAAGACCAA
GCAGAAGTAATGTGGTCCACAGCCATGCCCTTGAGGAGCTGGCCACTGGATACTGAACACCCTACTCCATTCTGC
TTATGAATCCCATTTGCCATTGACCCTGCAGTTAGCATGCTGTACCCCTGAATCATAATCGCTCCTTTGCACCT
CTAAAAAGATGTCCCTTACCCTCATTCTGGAGGCTCCTGAGCCTCTGCGTAAGGCTGAACGTCTCACTGACTGAG
CTAGTCTTCTTGTGCTCGGGTGCATTTGAGGATGGATTTGGGGAAGGTCAAGTGACCATCCCTAG

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FIGURE 1042

MNSQQQKQPCIPPPQPOQQQVKQPCQPPPOEPCIPKTKEPCQPKVPEPCHPKVPEPCQPKIPEPCQPKVPEPCPS
TVTPAPAQQKTKQK

GCCTCTGCTCCAGGCATCTGCCACA**AATGT**GGGTGCTTTACACCTGCTGCTTTTGTCTGGGAAGCTCTTTGAGTGTGTTCC
AGGCAACCTCTGAGCTCTCTGTGGAGGAGCCTGGTCCCCTGTTCTGCTGGCTGAGGGCAACCTTCTGGCTGCTA
GCTACCAAGAGGAGAAAAGCAGCAGCTGGTCTGAGAGGGCCAGATGAGACCAAAGAGGAGGAAGAGGACCCCTCCT
CTGCCCCACCACCCCAACCAGCGTCAACTATCACTTCACTCGCCAGTGCAACTACAAATGCGGCTTCTGTTTCCAC
ACAGCCAAAAACATCCTTTGTGCTGCCCCCTTGAGGAAGCAAAAGAGAGGATTGCTTTTGTCTTAAGGAAGCTGGTATG
GAGAAGATCAACTTTTTAGGTGGAGAGCCATTTCTTCAAGACCGGGGAGAATACCTGGGCAAGTTGGTGAGGTTT
TGCAAAAGTAGAGTTGCGGCTGCCCAGCGTGAGCATCGTGAGCAATGGAAGCCTGATCCGGGAGAGGTGGTTCCAG
AATTATGGTGAGTATTTGGACATTCTCGCTATCTCCTGTGACAGCTTTGACGAGGAAGTCAATGTCTTTATTGGC
CGTGGCCAAGGAAAAGAAGAACCATGTGGAAAAACCTTCAAAAGCTGAGGAGGTGGTGTAGGGATTATAGAGTCGCT
TTCAAGATAAAATTCTGTCAATTAATCGTTTCAACGTGGAAAGAGGACATGACCGAACAGATCAAAGCACTAAACCTT
GTCCGCTGGAAAAGTGTTCCAGTGCCCTCTTAATTGAGGGTGAGAATTGTGGAGAAGATGCTCTAAGAGAAGCAGAA
AGATTTGTATTGGTGATGAAGAAATTTGAAAGATTCTTGAGAGCGCCACAAAGAAGTGTCTGCTTGGTGCCTGAA
TCTAACCAGAAGATGAAAAGACTCCTACCTTATTCTGGATGAATATATGCGCTTCTGAACTGTAGAAAAGGACGG
AAGGACCCCTTCCAAGTCCATCCTGGATGTTGGTGTAGAAGAAGCTATAAAATTCAGTGGATTGTATGAAAAGATG
TTTTCTGAAGCGAGGAGGAAAAATACATATGGAGTAAGGCTGATCTGAAGCTGGATTGGT**TAG**AGCGGAAAGTGGAAC
GAGACTTCAACACACACAGTGGGAAAACTCCTAGAGTAACCTGCCATTGTCTGCAATACTATCCCGTTGGTATTTC
CAGTGGCTGAAAACTGATTTTTCTGCTGCACGTGGCATCTGATTACCTGTGGTCACTGAACACACGAATAACTTG
GATAGCAAATCCTGAGACAATGGAAAAACCATTAACCTTTACTTTCATTGGCTTATAACCTTGTGTATTATTGAAACAG
CACTTCTGTTTTTTGAGTTTTGTTTTAGCTAAAAAGAAGGAATACACACAGGAATAATGACCCCAAAAAATGCTTAGA
TAAGGCCCCCTATACACAGGACCTGACATTTAGCTCAATGATGCGTTTGTAAAGAAATAAGCTCTAGTGATATCTGT
GGGGGCAAAATTTAATTTGGATTGATTTTTTTAAAAACAATGTTTACTGCGATTCTATATTTCCATTTTGAAACT
ATTTCTTGTTCCAGGTTTGTTCATTTGACAGAGTCAGTATTTTTTGCCAAATATCCAGATAACCAGTTTTTCACAT
CTGAGACATTACAAAGTATCTGCCCTCAATTATTTCTGCTGGTTATAATGCTTTTTTTTTTTTGGCTTTATGCCAT
TGCAGTCTTGTACTTTTTACTGTGATGTACAGAAATAGTCAACAGATGTTTCCAAGAACATATGATATGATAATC
CTACCAATTTTCAAGAAGTCTCTAGAAAAGAGATAACACATGGAAAGACGGCGTGGTGCAGCCAGCCACGGTGC
CTGTTCCATGAATGCTGGCTACCTATGTGTGTGGTACCTGTTGTGTCCCTTTCTCTTCAAAGATCCCTGAGCAAA
ACAAAGATACGCTTTTCCATTTGATGATGGAGTTGACATGGAGGCAGTGCTTGCATTGCTTTGTTTCGCTATCATC
TGGCCACATGAGGCTGTCAAGCAAAAAGAAATAGGAGTGATGTTGAGTAGCTGGTTGGCCCTACATTTCTGAGAAGT
GACGTTACACTGGGTTGGCATAAGATATCCTAAAAATCACGCTGGAACCTTGGGCAAGGAAGAAATGTGAGCAAGAG
TAGAGAGAGTGCTGGATTTCAATGTGAGTGAAGCCATGTCAACCATATCATATTTTTGAATGAACTCTGAGTCAGT
TGAAATAGGGTACCATCTAGGTCAGTTTAAAGAAGAGTCAGCTCAGAGAAAAGCAAGCATAAGGGAAAAATGTCACGT
AACTAGATCAGGGAAACAAAATCCTCTCCTTGTGGAAAATATCCCATGCAGTTTGTGTGATACAACTTAGTATCTTA
TTGCCATAAAAAAAATTTCTTATCATTTGTTTCAAAAAAGCAAAATCATGGAAAATTTTTGTTGTCCAGGCAAAAT
AAAGGTCATTTTAAATTTAAAAAAGAGGCAAGGAAAAAATATTCCTACT
TAAATTTTAAAGTCTATAAATTCATTTAAATATGTGTGTGTCTCATCCAGGATAGGATAGGTTGTCTTCTATTTT
CATTTTACCTATTTACTTTTTTTTGTAAAGAAAAGAGAAGATGAATTCTAAAGATGTTCCCATGGGTTTTGATT
TGTCTAAGCTATGATGACCTTCATATAATCAGCATAAACATAAAACAAATTTTTTACTTAACATGAGTGCACCTT
ACTAATCCTCATGGCACAGTGGCTCACGCCGTGAATCCAGCACTTGGGGAGGACAATGTGGGGTGGATCACGAG
GTC

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FIGURE 1044

MWVLTPAAFAGKLLSVFRQPLSSLWRSVLPLFCWLRATFWLLATKRRKQQLVLRGPDETKEEEEDPPLPTTPTSV
NYHFTRQCNKYKCGFCFHTAKTSFVLPLEEAKRGLLLLKEAGMEKINFSGGEPFLQDRGEYLGKLVRFCKVELRLP
SVSIVSNGSLIRERWFQNYGEYLDILAISCDSEEVNVLIGRGQGKKNHVENLQKLRRWCRDYRVAFKINSVIN
RFNVEEDMTEQIKALNPFVRWKVFQCLLIEGENCGEDALREAERFVIGDEEFERFLERHKEVSCLVPESNQMKDS
YLILDEYMRFLNCRKGRKDP SKSILDVGVEEAIKFSGFDEKMFLKRGGKYIWSKADLKLDW

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FIGURE 1045

ATTATAAGGAGAATGAACGATTTCAATATAAATGTAACATGGGTTATGAATACAGTGAAAGAGGAGATGCTGTA
TGCACCTGAATCTGGATGGCGTCCGTTGCCTTCATGTGAAGAAAAATCATGTGATAATCCTTATATTCCAAATGGT
GACTACTCACCTTTAAGGATTAAACACAGAACTGGAGATGAAATCACGTACCAGTGTAGAAATGGTTTTTATCCT
GCAACCCGGGGAAATACAGCCAAATGCACAAGTACTGGCTGGATACCTGCTCCGAGATGTACCTTGAAACCTTGT
GATTATCCAGACATTAAACATGGAGGTCTATATCATGAGAATATGCGTAGACCATACTTTCCAGTAGCTGTAGGA
AAATATTACTCCTATTACTGTGATGAACATTTTGAGACTCCGTCAGGAAGTTACTGGGATCACATTCATTGCACA
CAAGATGGATGGTCGCCAGCAGTACCATGCCTCAGAAAAATGTTATTTTCCTTATTTGGAAAATGGATATAATCAA
AATTATGGAAGAAAGTTTGTACAGGGTAAATCTATAGACGTTGCCTGCCATCCTGGCTACGCTCTTCCAAAAGCG
CAGACCACAGTTACATGTATGGAGAATGGCTGGTCTCCTACTCCCAGATGCATCCGTGTCAGCTTTACCCCTCTGA
ACTTCTGATCGAAGGTCATCCCTCTCCAGCTTGAGTGGATCAAAGATGACAAGGGCCAATGGAACCAAGTTTGAG
TCTTGCCAGGTCAATACTTGGGTCTGAGTATGGTGAAGTAGTATCTGTTTTGTTATGTGTGTATTATTCCAGCCA
GAATGGGAAATGCTAATTCAGCTCCTCCAGGCAGCCCAATGGGGCTGGTGGCTTTGAGATTATTAAACTCTTTCT
CTGCTGC